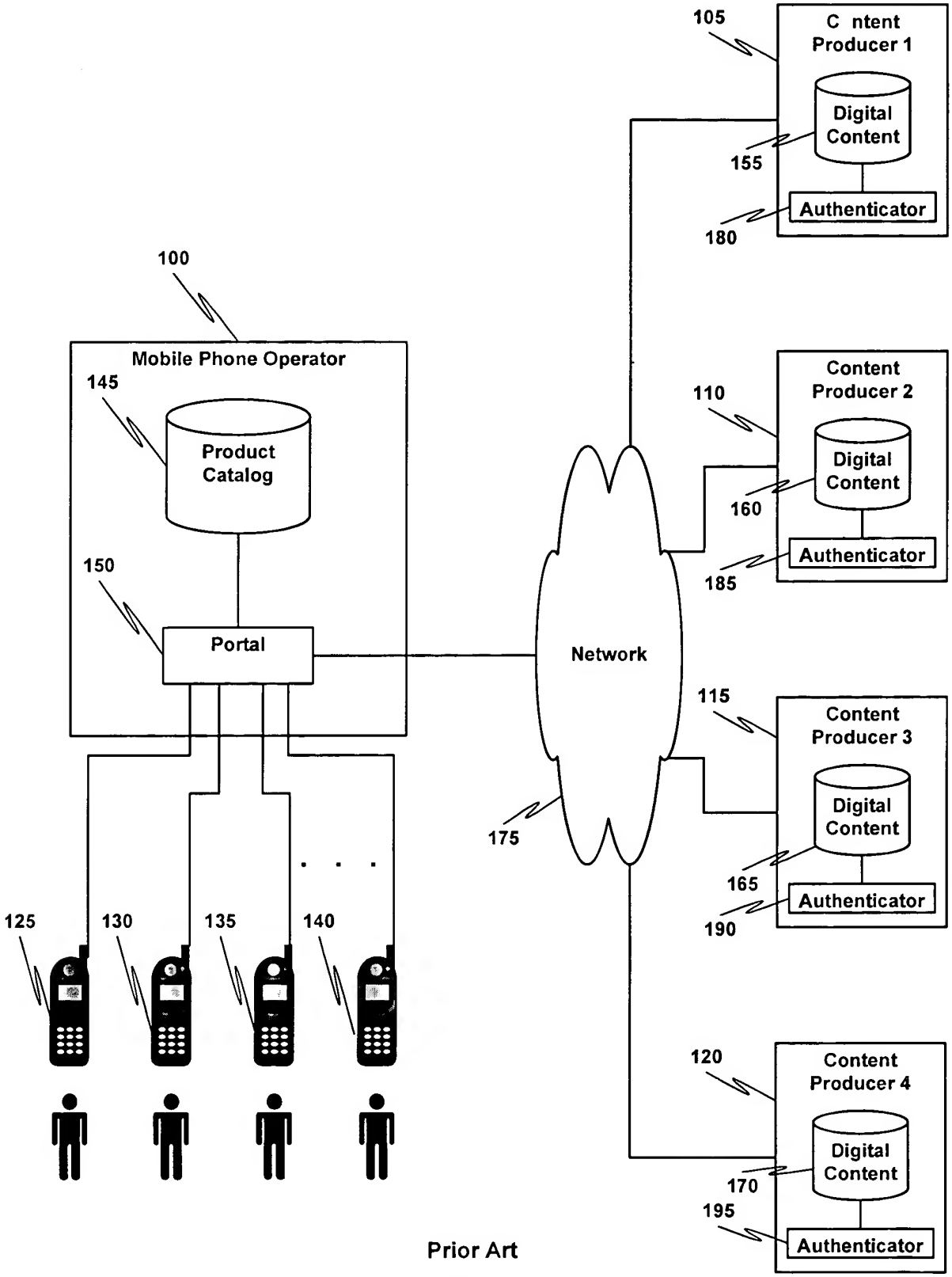

Prior Art

FIG. 1

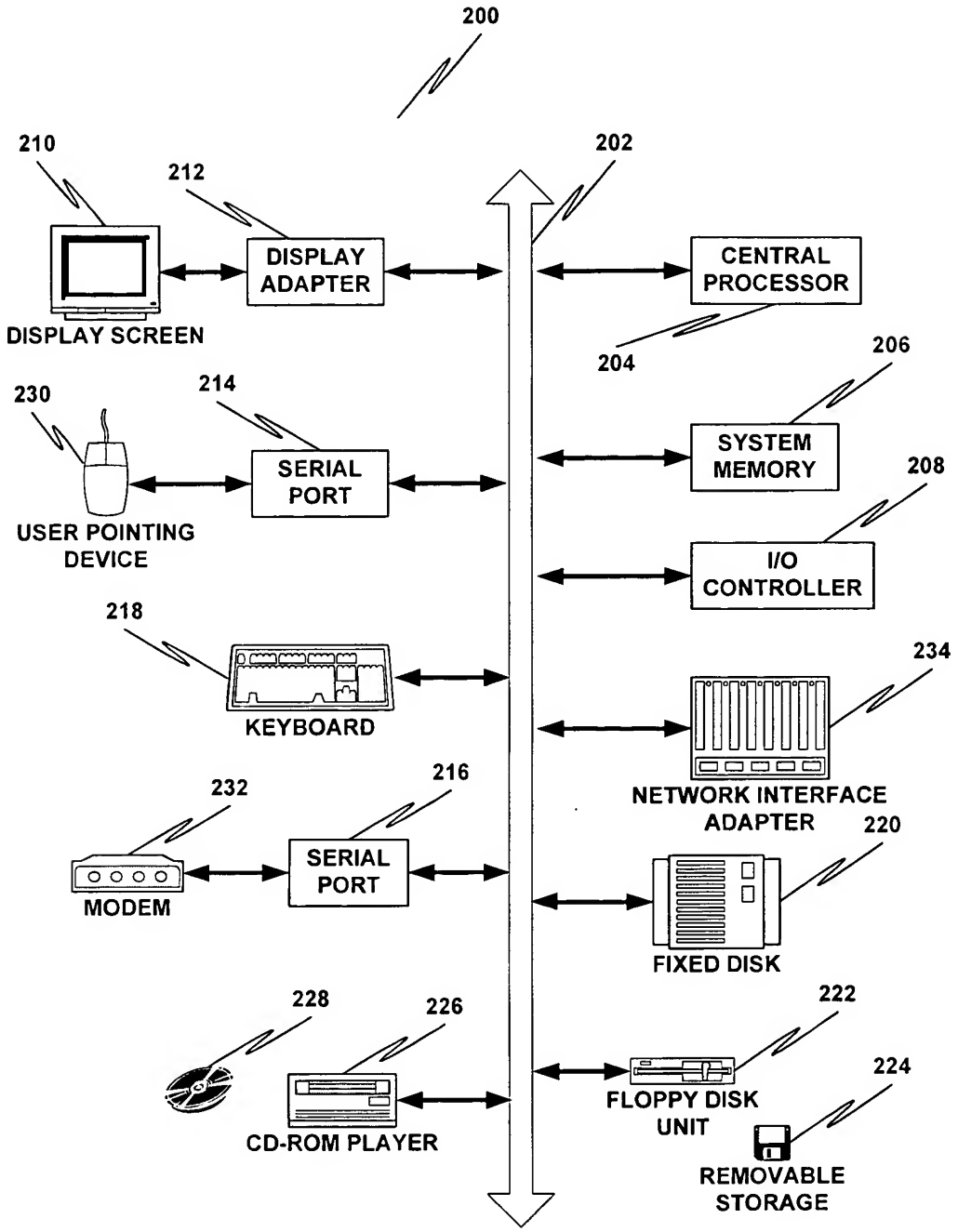
200
210
212
202
DISPLAY ADAPTER
CENTRAL PROCESSOR
DISPLAY SCREEN
204
206
230
214
SERIAL PORT
SYSTEM MEMORY
208
USER POINTING DEVICE
I/O CONTROLLER
218
234
KEYBOARD
NETWORK INTERFACE ADAPTER
232
216
220
SERIAL PORT
MODEM
FIXED DISK
228
226
222
FLOPPY DISK UNIT
224
CD-ROM PLAYER
REMOVABLE STORAGE

FIG. 2

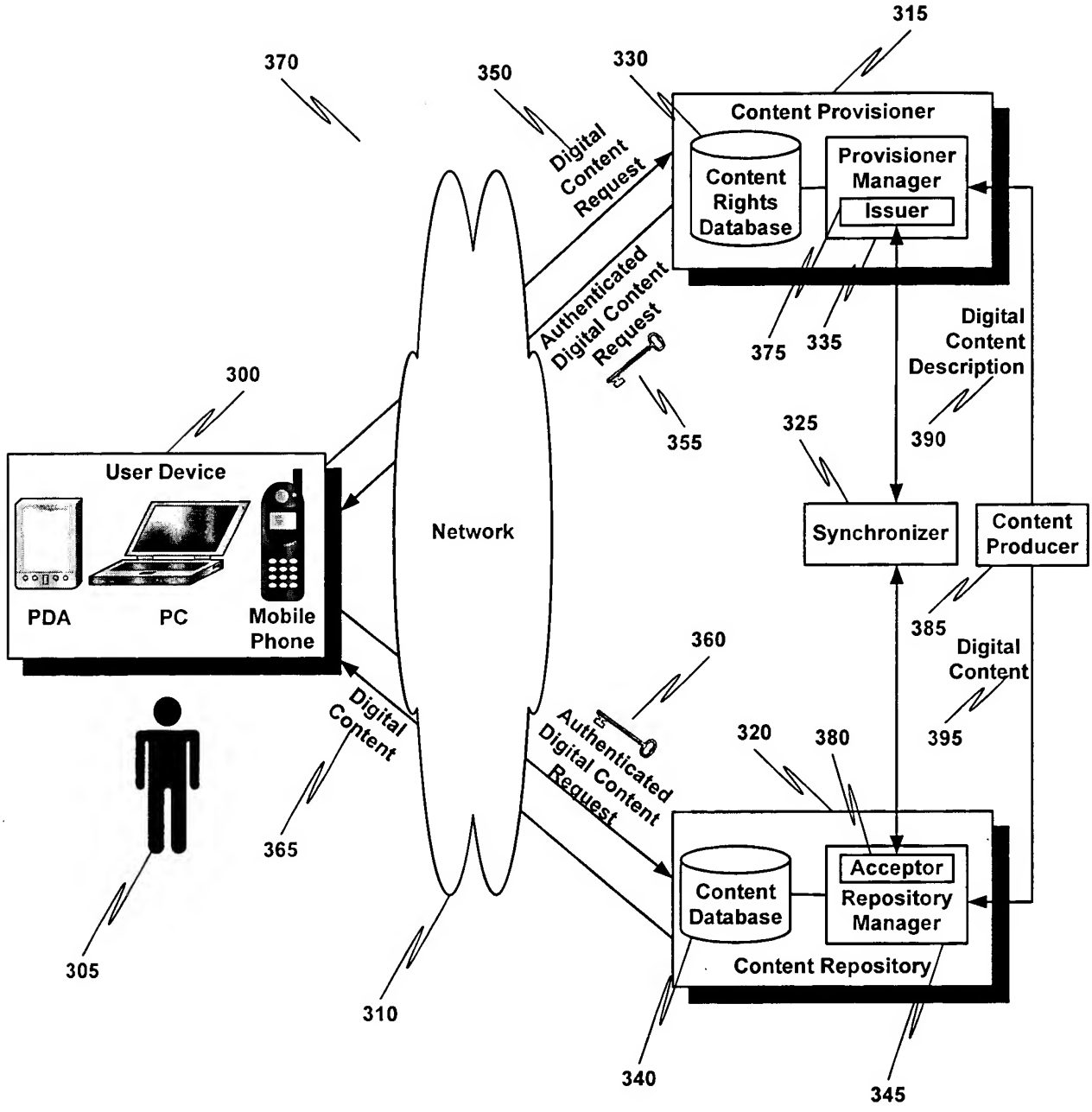
315
370
350
330
Content Provisioner
Digital Content Request
Content Rights Database
Provisioner Manager
Issuer
Authenticated Digital Content Request
375
335
Digital Content Description
300
355
325
390
User Device
Network
Synchronizer
Content Producer
PDA
PC
Mobile Phone
385
360
Digital Content
Digital Content
Authenticated Digital Content Request
320
380
395
365
Acceptor
Content Database
Repository Manager
Content Repository
305
310
340
345

FIG. 3

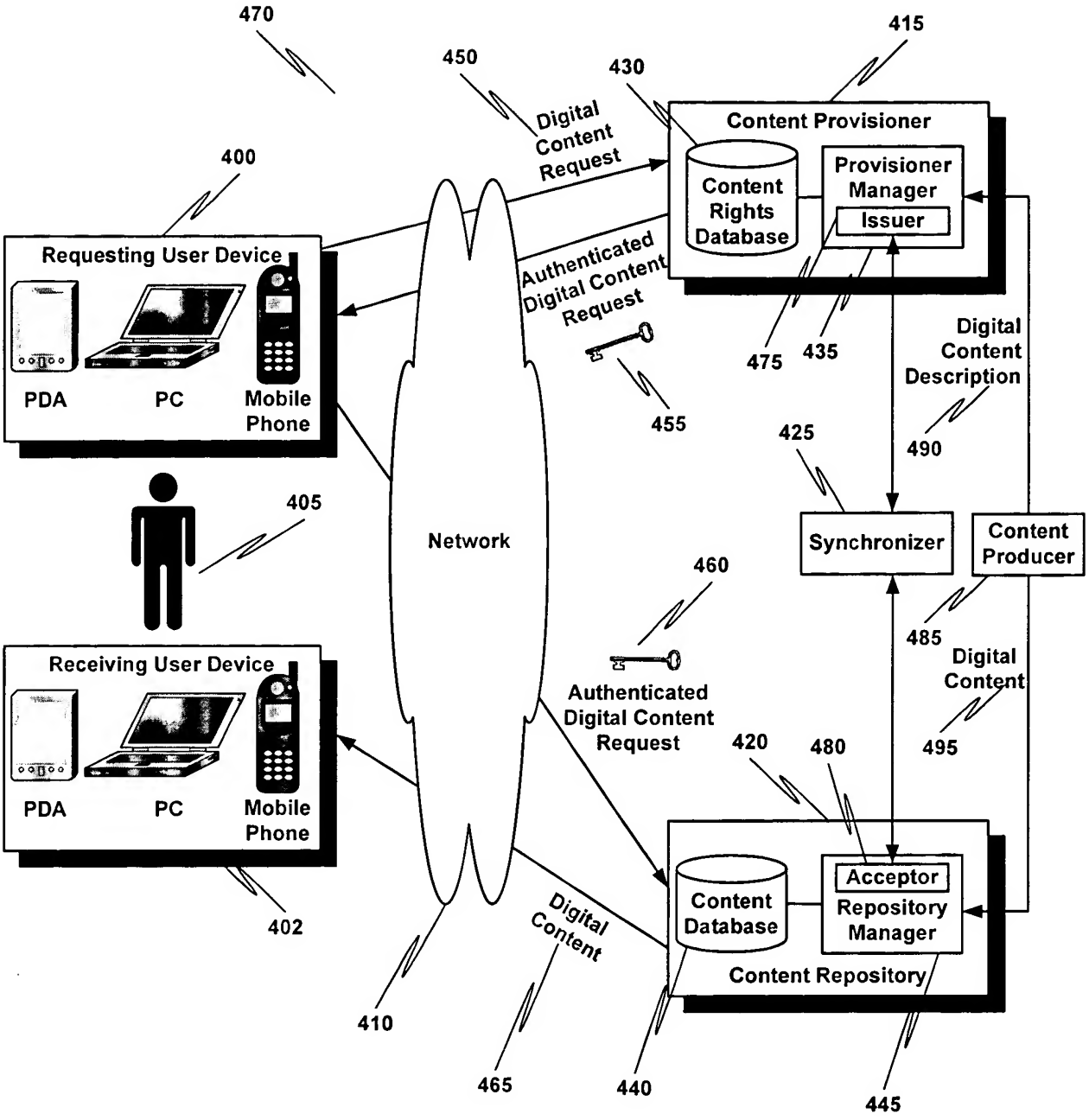
470
450
Digital Content Request
430
415
Content Provisioner
Content Rights Database
Provisioner Manager
Issuer
400
Requesting User Device
PDA
PC
Mobile Phone
Authenticated Digital Content Request
455
475
435
Digital Content Description
490
425
405
Network
Synchronizer
Content Producer
460
485
Digital Content
Authenticated Digital Content Request
420
480
495
Receiving User Device
PDA
PC
Mobile Phone
402
Content Database
Acceptor
Repository Manager
Content Repository
Digital Content
410
465
440
445

FIG. 4

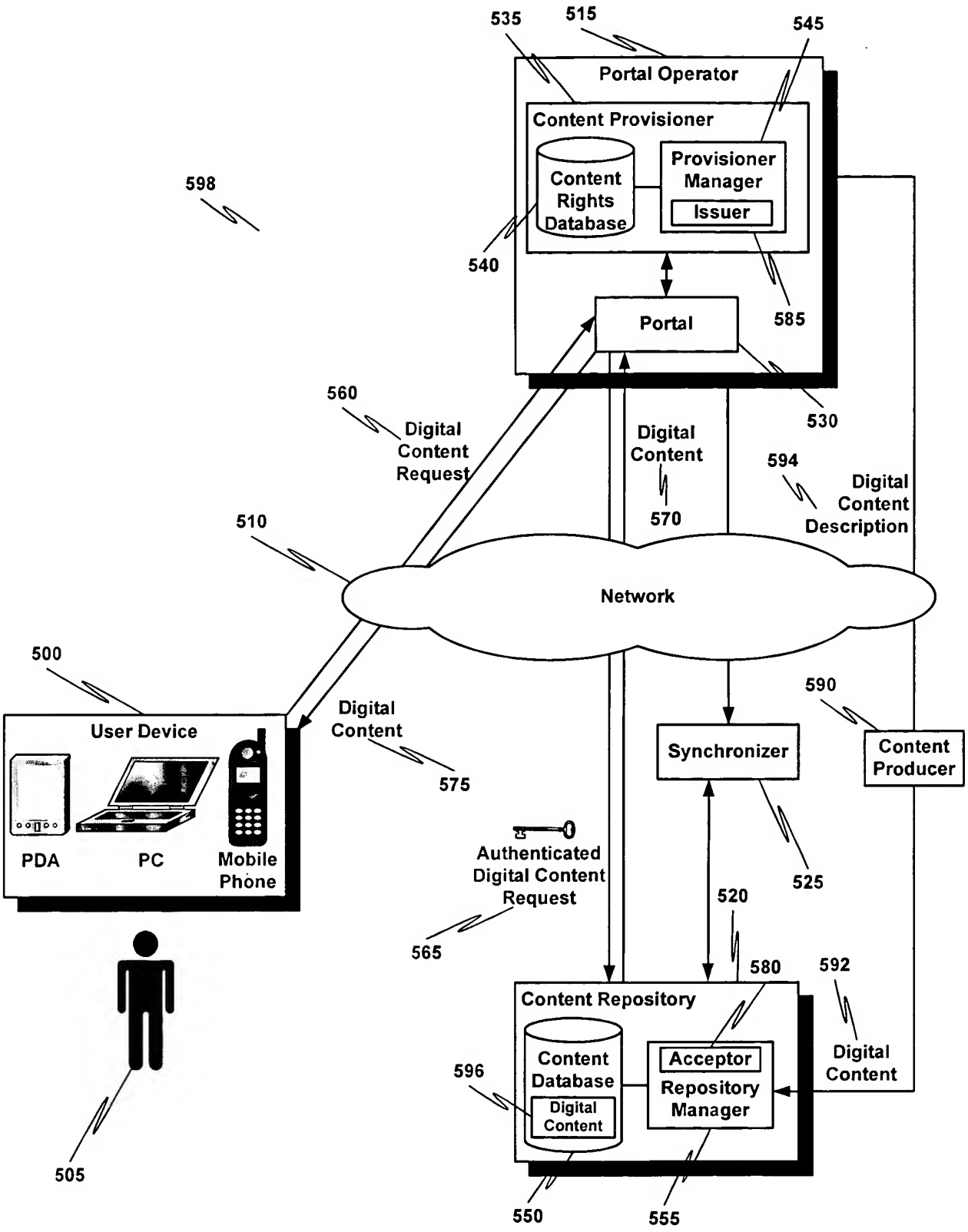
535
515
545
Portal Operator
Content Provisioner
Content Rights Database
Provisioner Manager
Issuer
598
540
585
Portal
530
560
Digital Content Request
Digital Content
570
594
Digital Content Description
510
Network
500
User Device
PDA
PC
Mobile Phone
Digital Content
575
590
Synchronizer
Content Producer
Authenticated Digital Content Request
565
525
520
580
592
Content Repository
Content Database
Digital Content
596
Acceptor
Repository Manager
Digital Content
505
550
555

FIG. 5

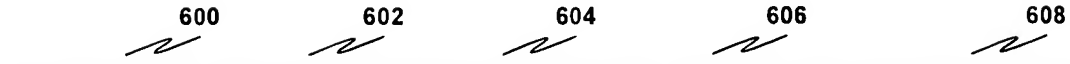

FIG. 6A

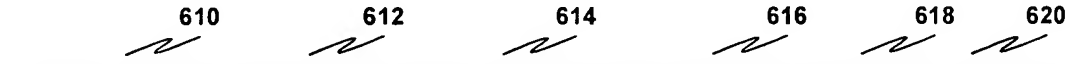

FIG. 6B

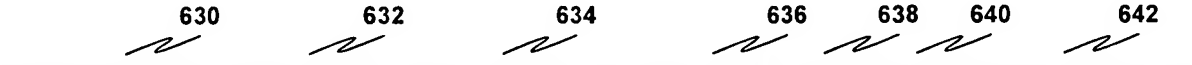

FIG. 6C

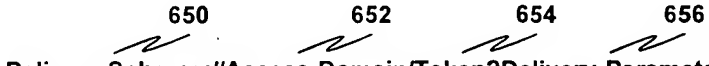

FIG. 6D

FIG. 6E

FIG. 6F

FIG. 6

FIG. 7A

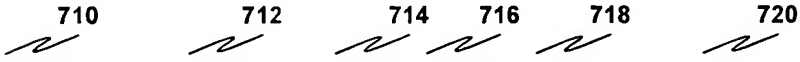

FIG. 7B

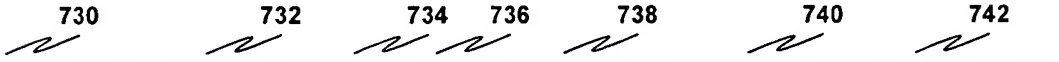

FIG. 7C

FIG. 7

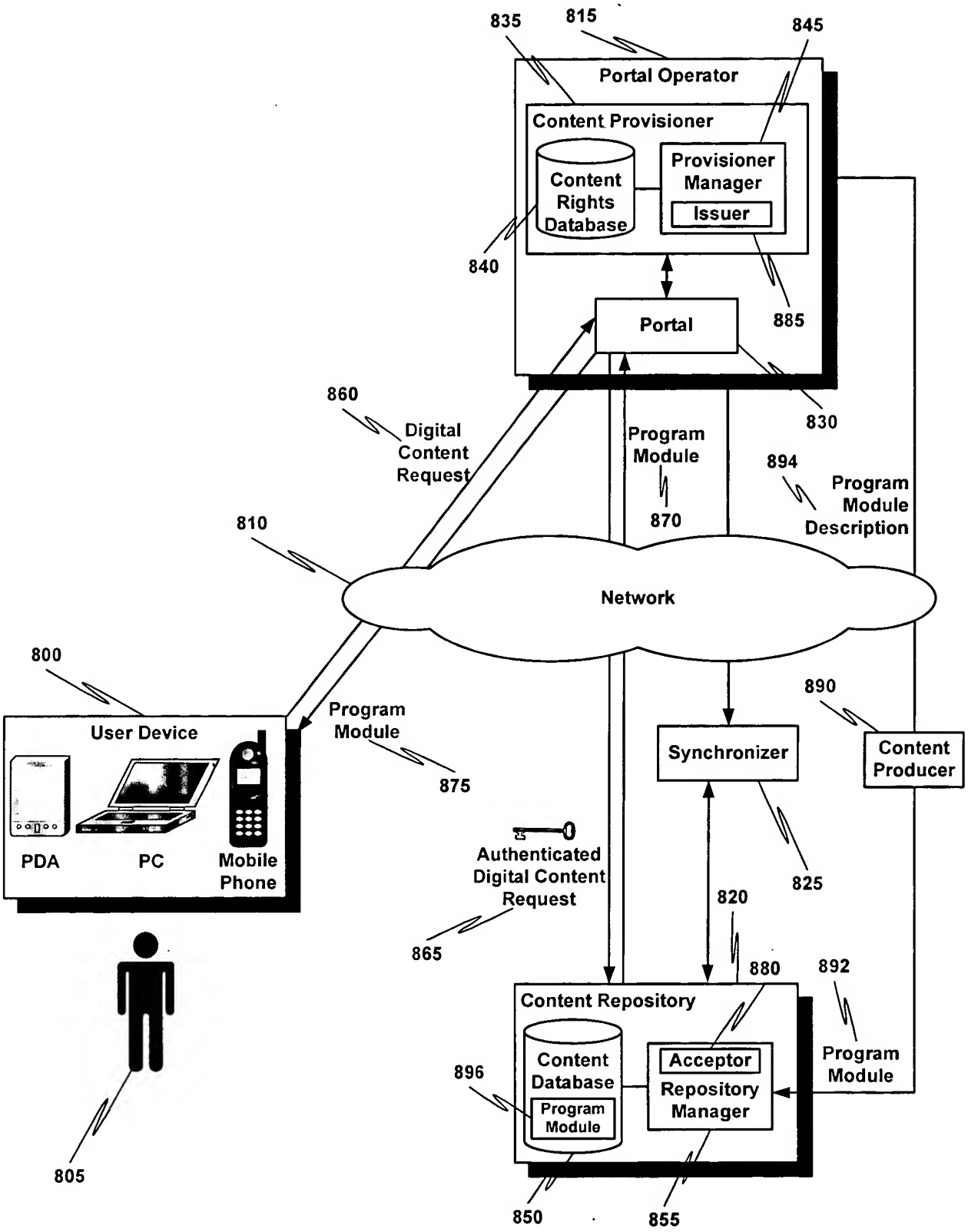
835
815
845
Portal Operator
Content Provisioner
Content Rights Database
Provisioner Manager
Issuer
840
885
Portal
830
860
Digital Content Request
Program Module
870
894
Program Module Description
810
Network
800
User Device
PDA
PC
Mobile Phone
Program Module
875
890
Synchronizer
Content Producer
825
Authenticated Digital Content Request
865
820
880
892
Content Repository
Content Database
Program Module
896
Acceptor
Repository Manager
Program Module
805
850
855

FIG. 8

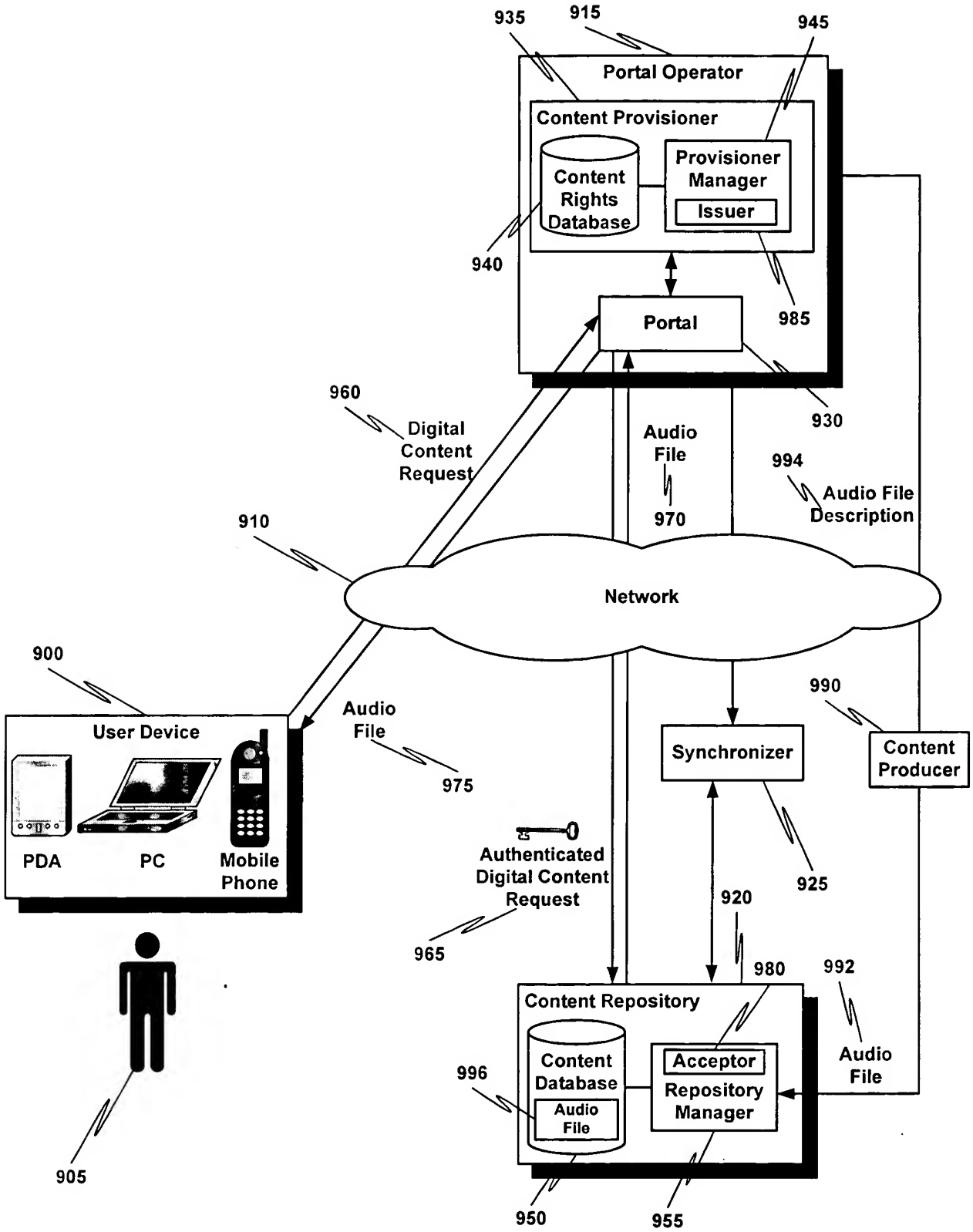
935
915
945
Portal Operator
Content Provisioner
Content Rights Database
Provisioner Manager
Issuer
940
985
Portal
930
960
Digital Content Request
Audio File
970
994
Audio File Description
910
Network
900
User Device
PDA
PC
Mobile Phone
Audio File
975
990
Synchronizer
Content Producer
Authenticated Digital Content Request
965
925
920
980
992
Content Repository
Content Database
Audio File
996
Acceptor
Repository Manager
Audio File
905
950
955

FIG. 9

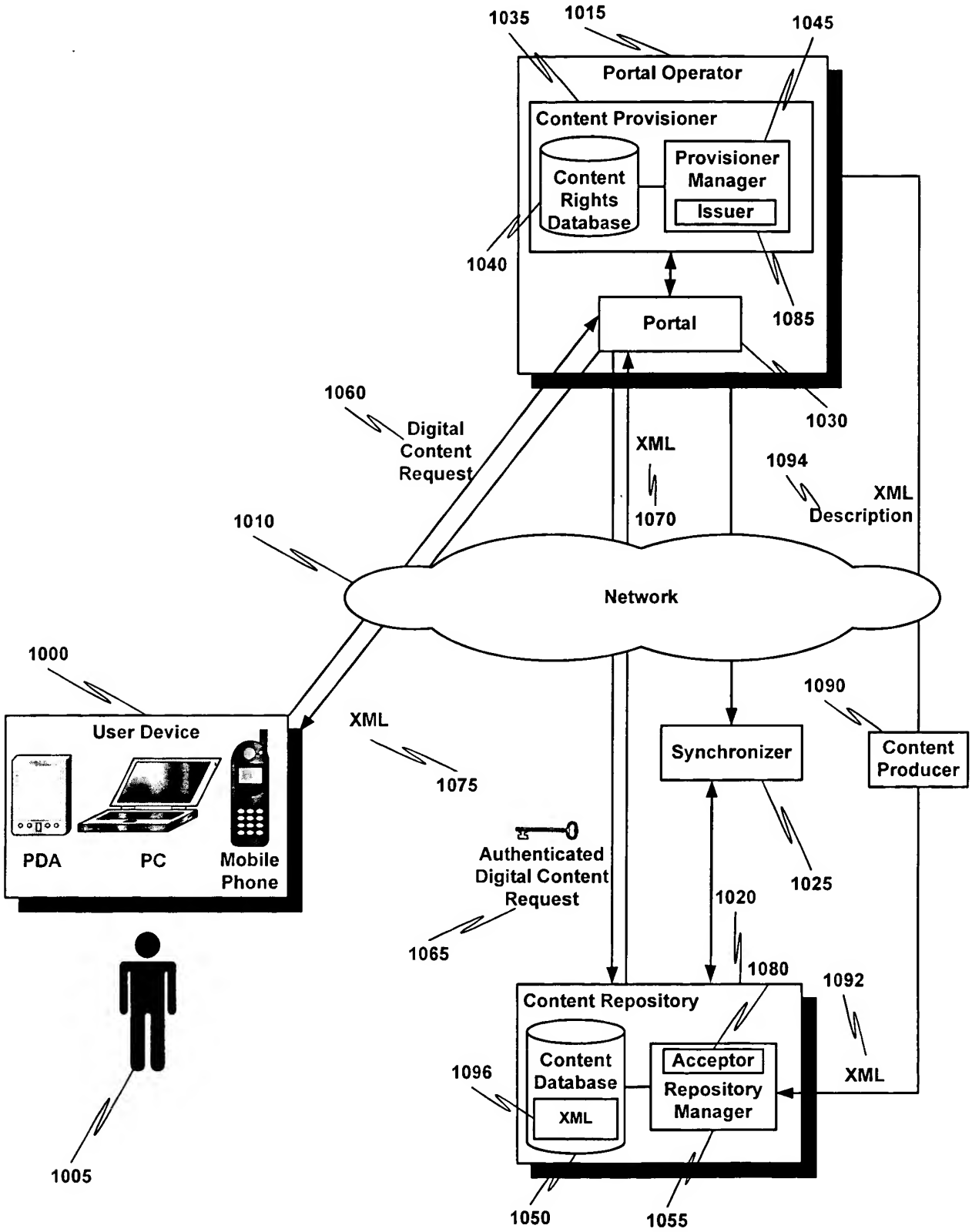
1035
1015
1045
Portal Operator
Content Provisioner
Content Rights Database
Provisioner Manager
Issuer
1040
1085
Portal
1030
1060
Digital Content Request
XML
1070
1094
XML Description
1010
Network
1000
User Device
PDA
PC
Mobile Phone
XML
1075
1090
Synchronizer
Content Producer
Authenticated Digital Content Request
1065
1025
1020
1080
1092
Content Repository
Content Database
XML
1096
Acceptor
Repository Manager
XML
1005
1050
1055

FIG. 10

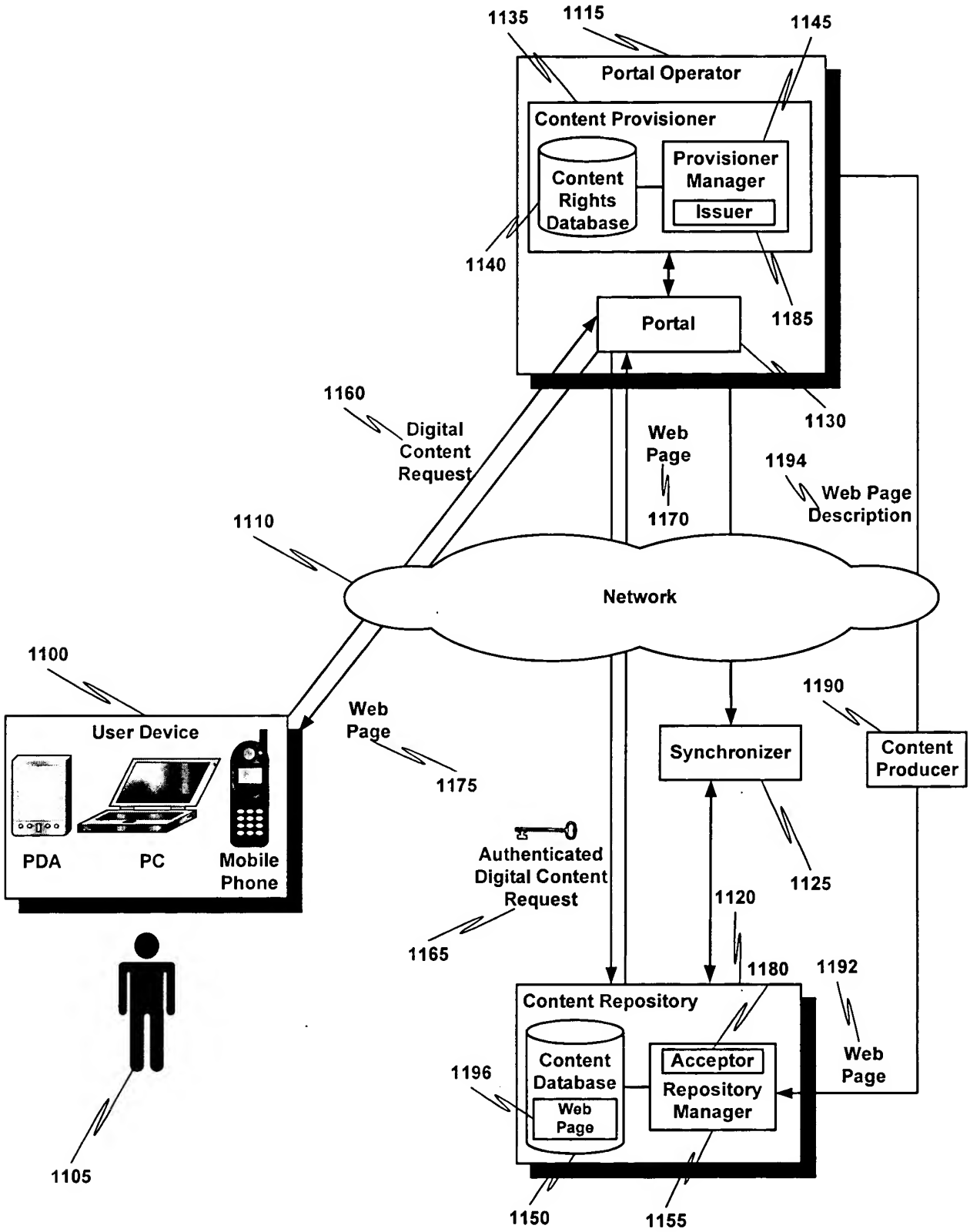
1135
1115
1145
Portal Operator
Content Provisioner
Content Rights Database
Provisioner Manager
Issuer
1140
1185
Portal
1130
1160
Digital Content Request
Web Page
1170
1194
Web Page Description
1110
Network
1100
User Device
PDA
PC
Mobile Phone
Web Page
1175
1190
Synchronizer
Content Producer
Authenticated Digital Content Request
1165
1125
1120
1180
1192
Content Repository
Content Database
Web Page
1196
Acceptor
Repository Manager
Web Page
1105
1150
1155

FIG. 11

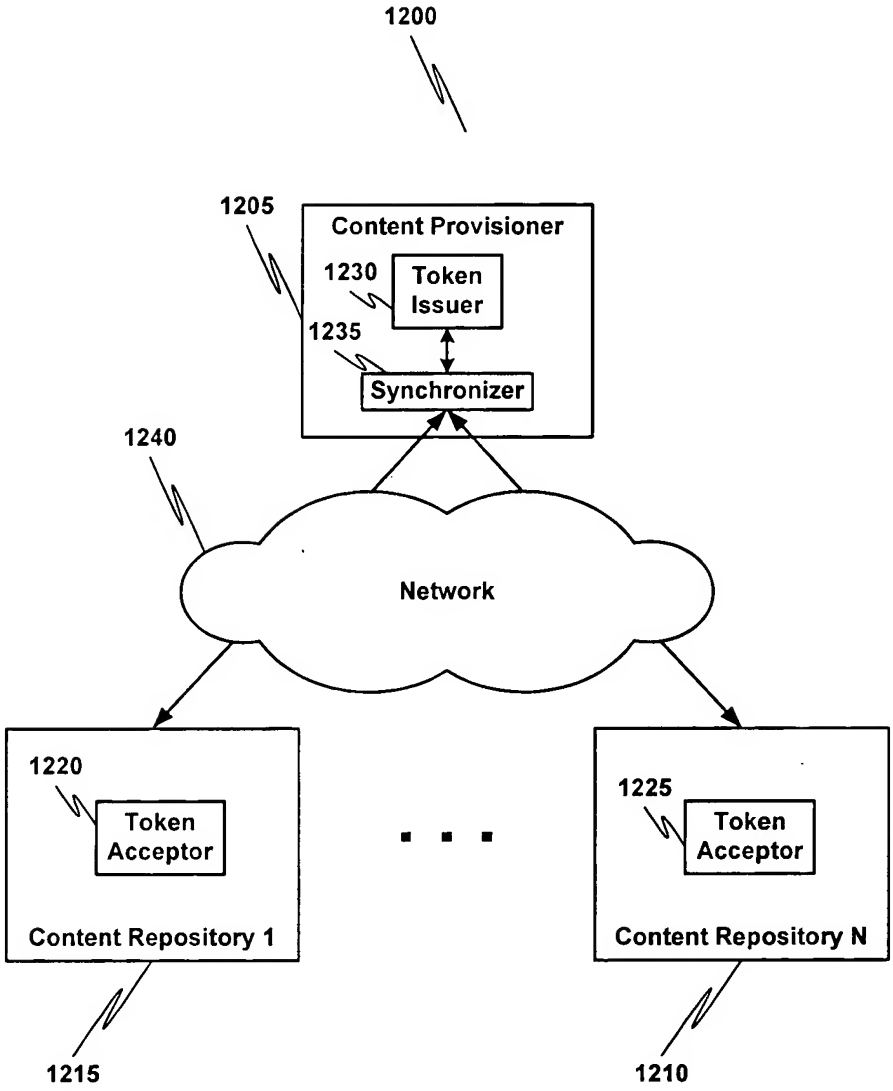
1200
1205
Content Provisioner
1230
Token Issuer
1235
Synchronizer
1240
Network
1220
Token Acceptor
Content Repository 1
1225
Token Acceptor
Content Repository N
1215
1210

FIG. 12

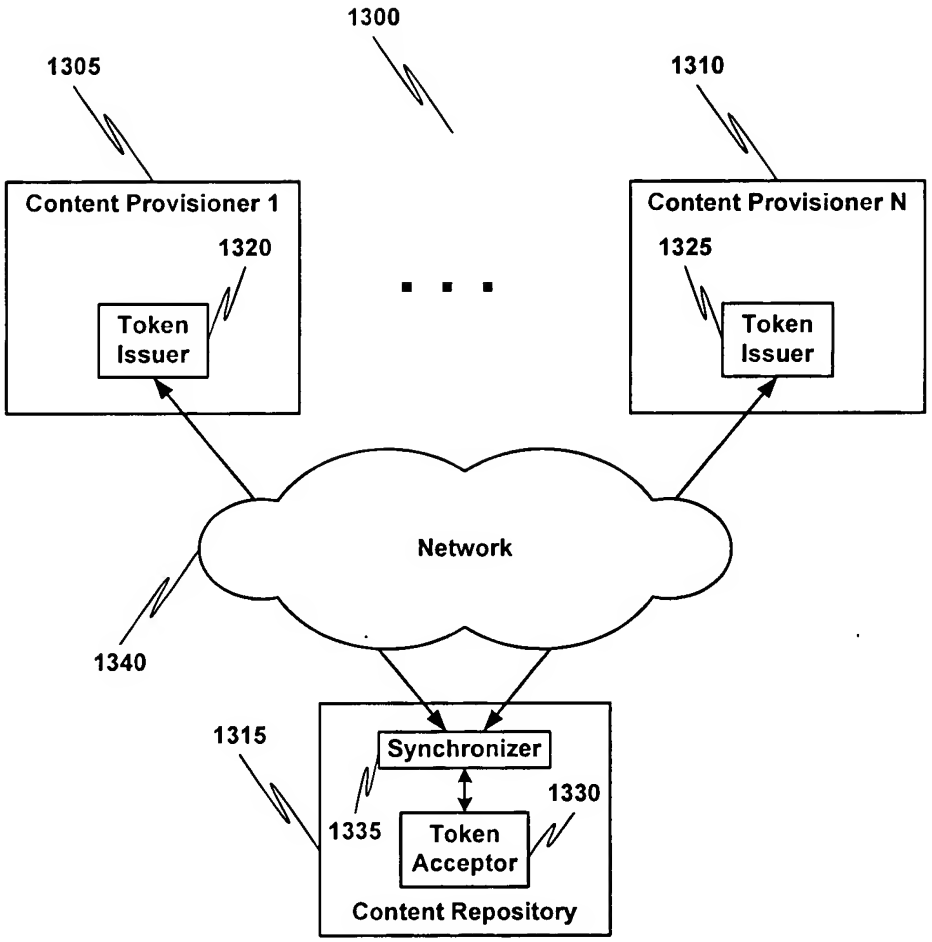
1300
1305
1310
Content Provisioner 1
1320
Token Issuer
Content Provisioner N
1325
Token Issuer
Network
1340
1315
Synchronizer
1330
1335
Token Acceptor
Content Repository

FIG. 13

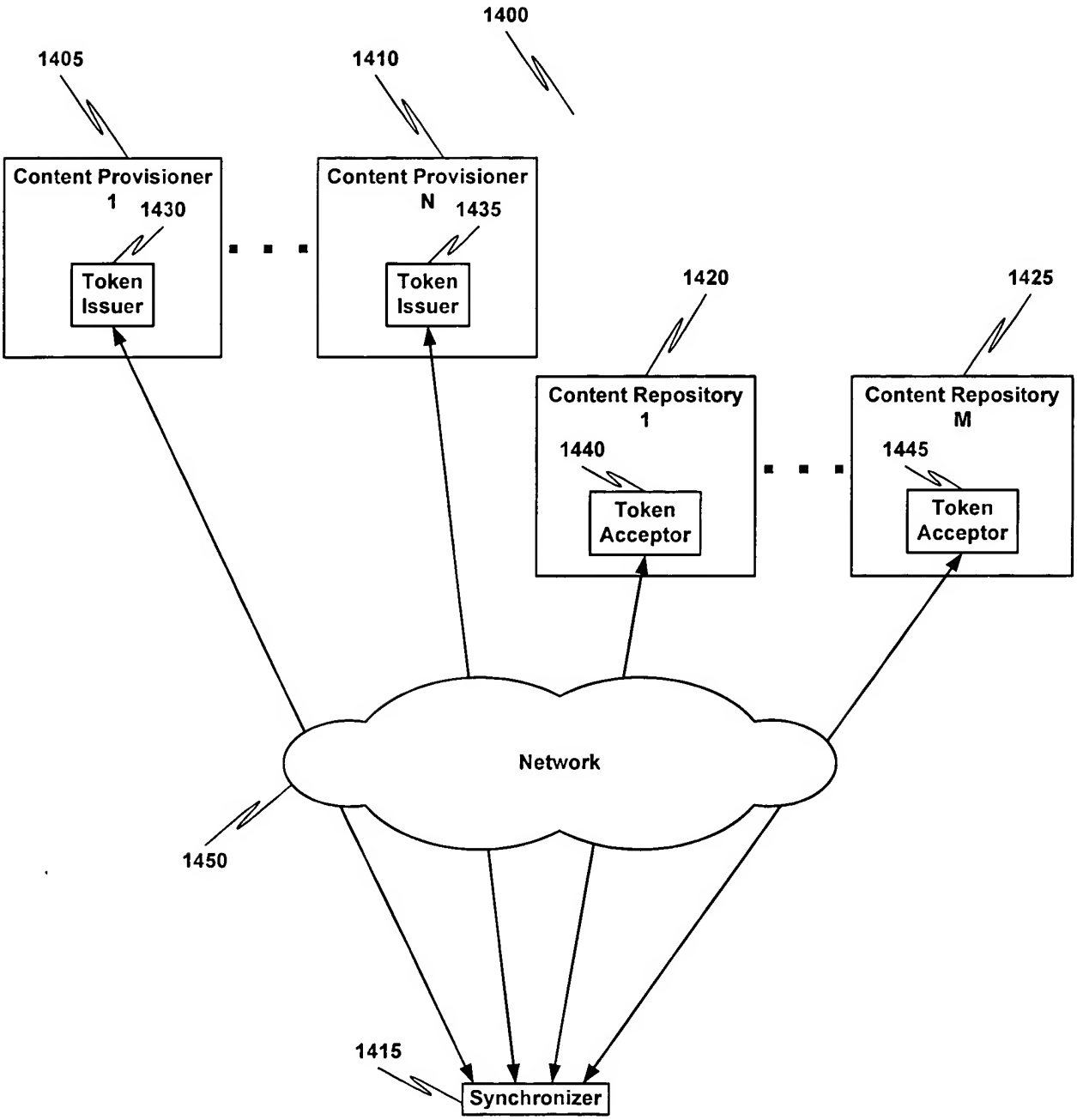
1400
1405
1410
Content Provisioner 1
1430
Token Issuer
Content Provisioner N
1435
Token Issuer
1420
Content Repository 1
1440
Token Acceptor
1425
Content Repository M
1445
Token Acceptor
Network
1450
1415
Synchronizer

FIG. 14

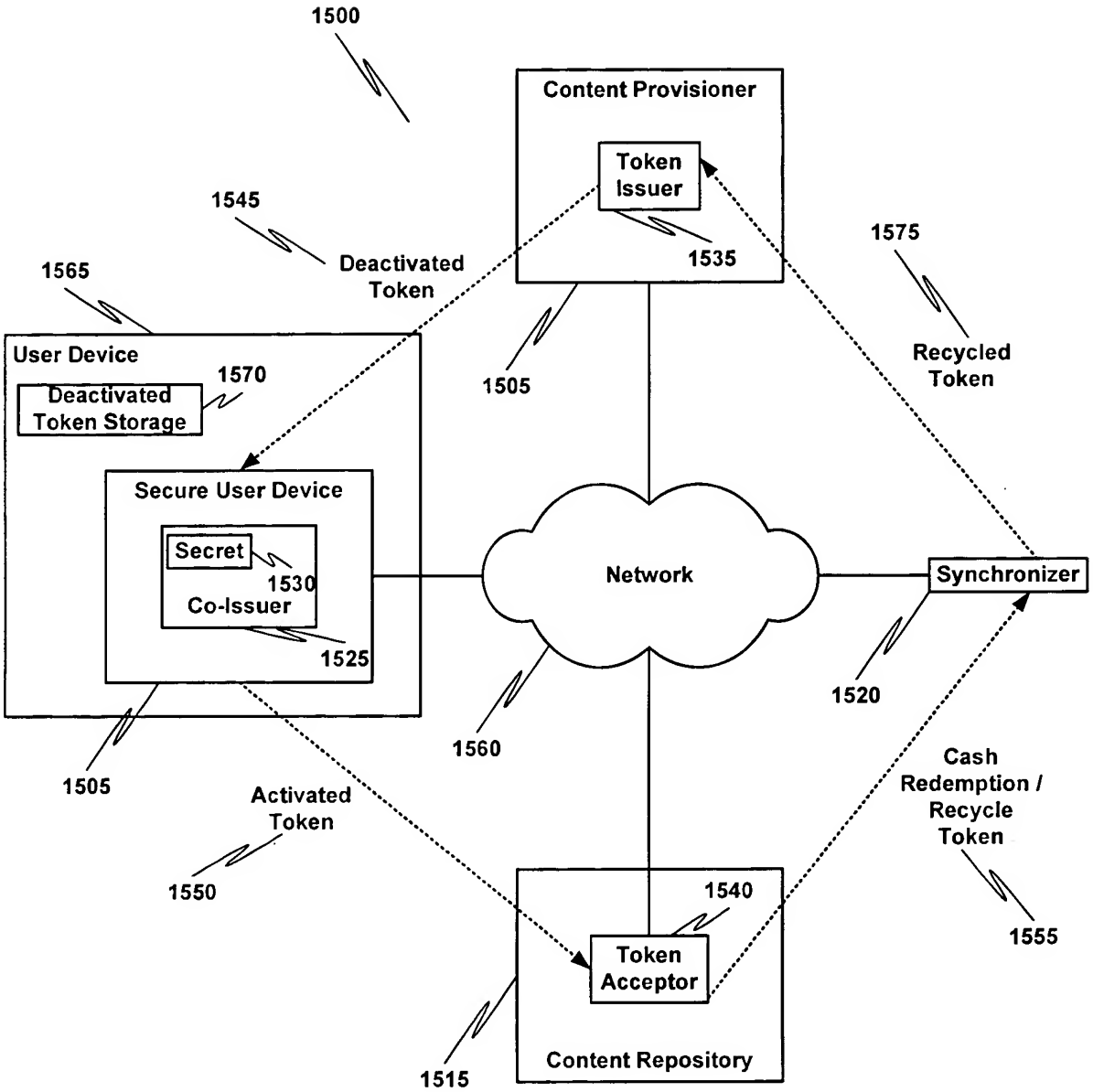
1500
Content Provisioner
Token Issuer
1535
1545
Deactivated Token
1565
1575
Recycled Token
User Device
1570
Deactivated Token Storage
1505
Secure User Device
Secret
1530
Co-Issuer
1525
Network
Synchronizer
1520
1560
1505
Activated Token
1550
Cash Redemption / Recycle Token
1555
1540
Token Acceptor
Content Repository
1515

FIG. 15

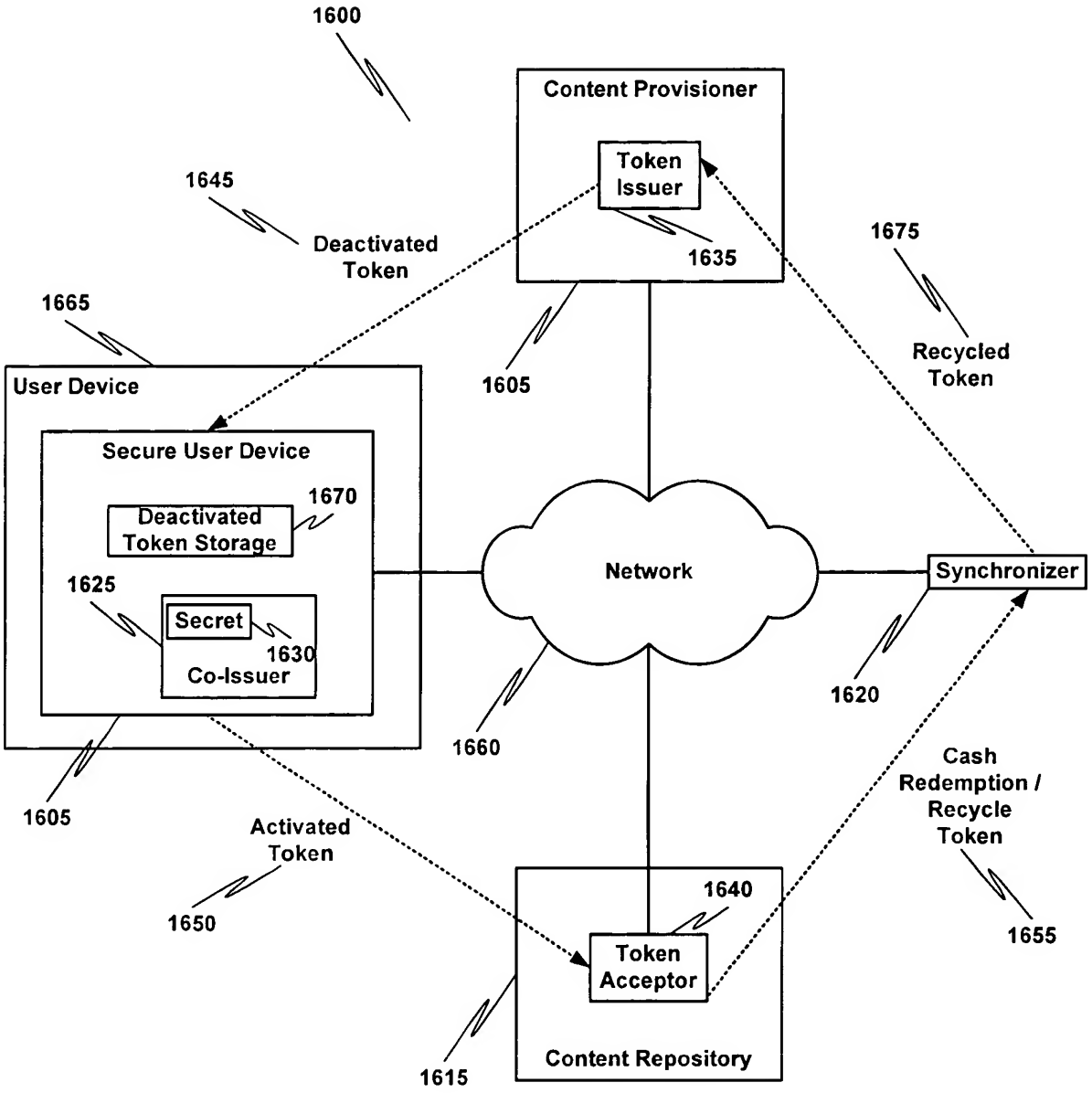
1600
Content Provisioner
Token Issuer
1635
1645
Deactivated Token
1675
Recycled Token
1665
User Device
1605
Secure User Device
1670
Deactivated Token Storage
Network
Synchronizer
1625
Secret
1630
Co-Issuer
1620
1660
1605
Cash Redemption / Recycle Token
Activated Token
1650
1640
Token Acceptor
1655
Content Repository
1615

FIG. 16

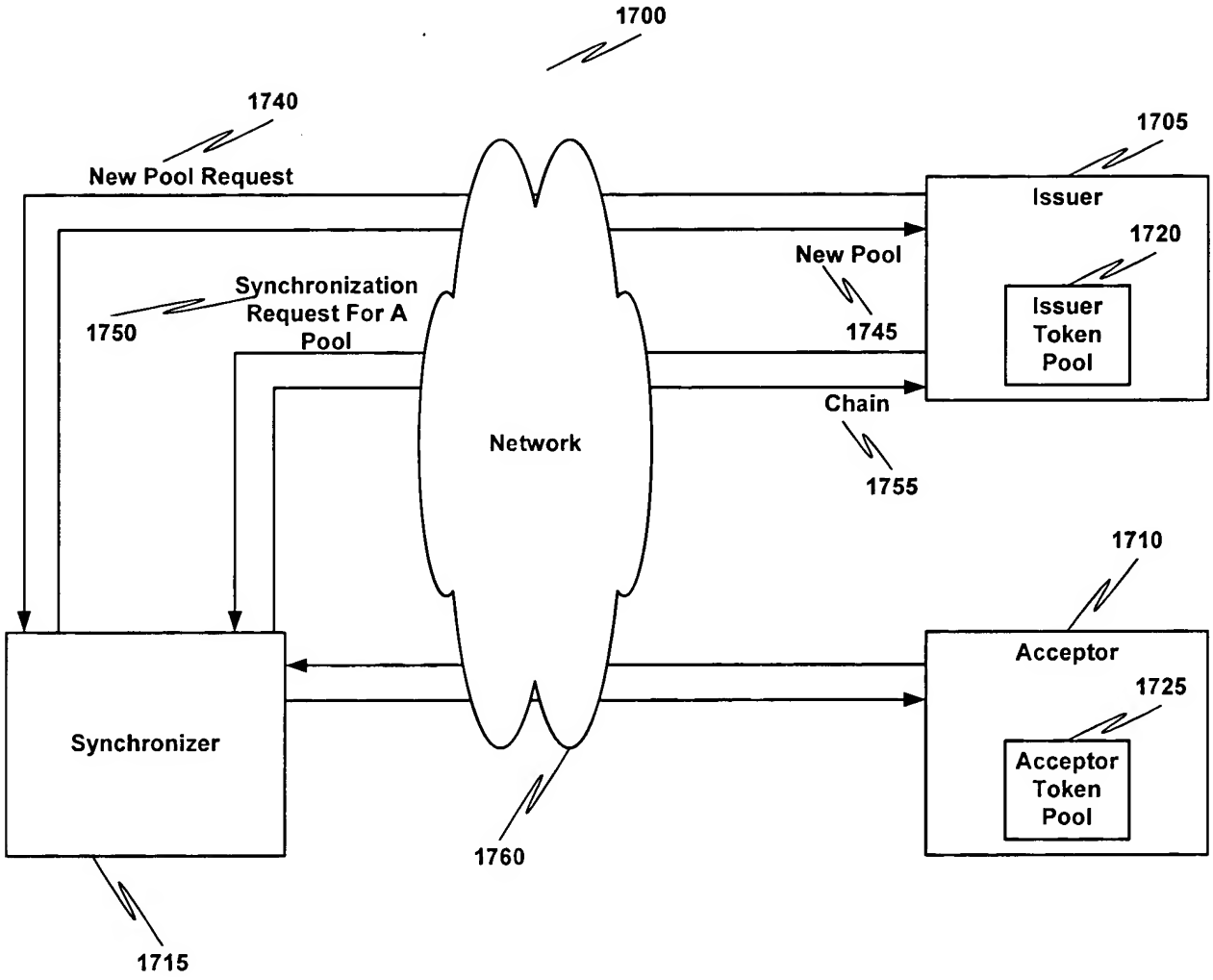
1700
1740
New Pool Request
1705
Issuer
1720
New Pool
1745
Issuer Token Pool
Synchronization Request For A Pool
1750
Network
Chain
1755
1710
Acceptor
1725
Acceptor Token Pool
Synchronizer
1760
1715

FIG. 17

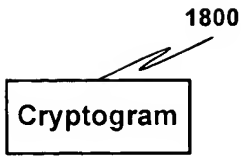

FIG. 18A

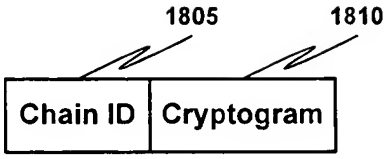

FIG. 18B

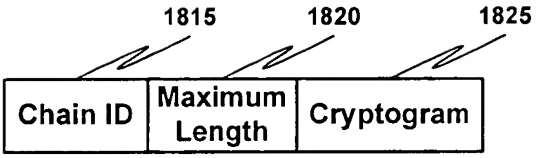

FIG. 18C

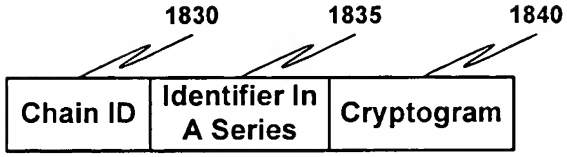

FIG. 18D

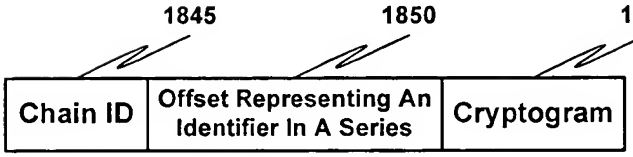

FIG. 18E

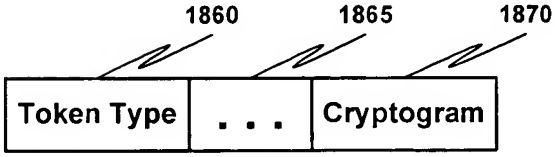

FIG. 18F

FIG. 18

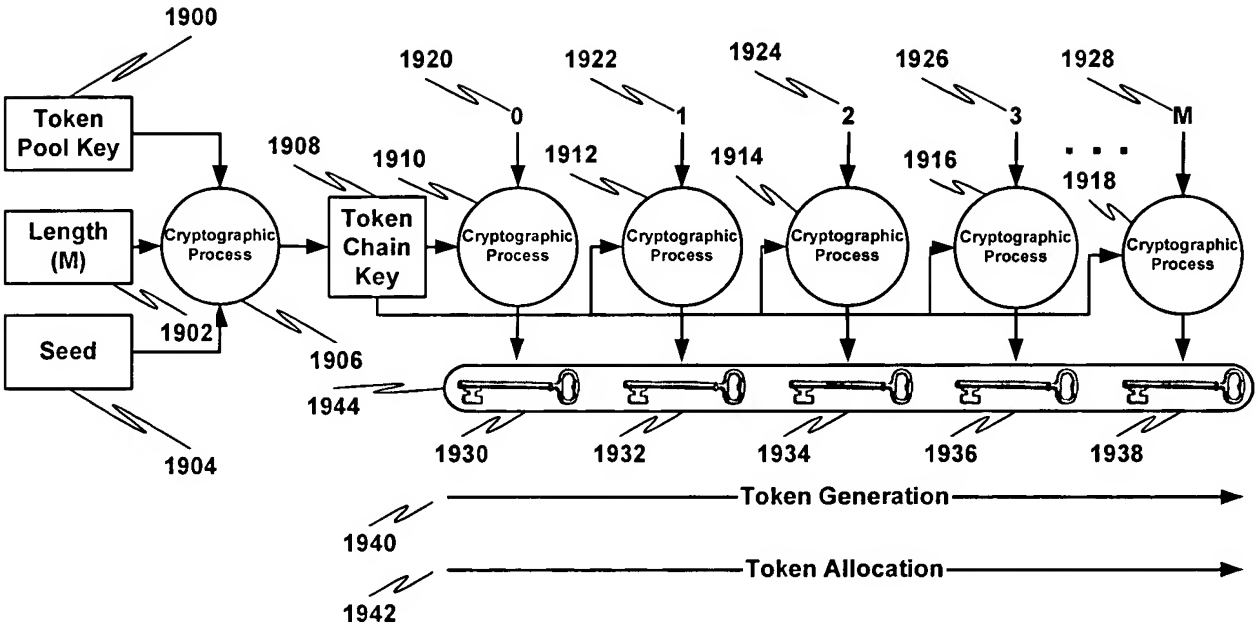
1900
Token Pool Key
Length (M)
Seed
1902
1904
Cryptographic Process
1906
1908
Token Chain Key
1910
1912
1914
1916
1918
1920
1922
1924
1926
1928
0
1
2
3
M
1930
1932
1934
1936
1938
1944
Token Generation
Token Allocation
1940
1942

FIG. 19

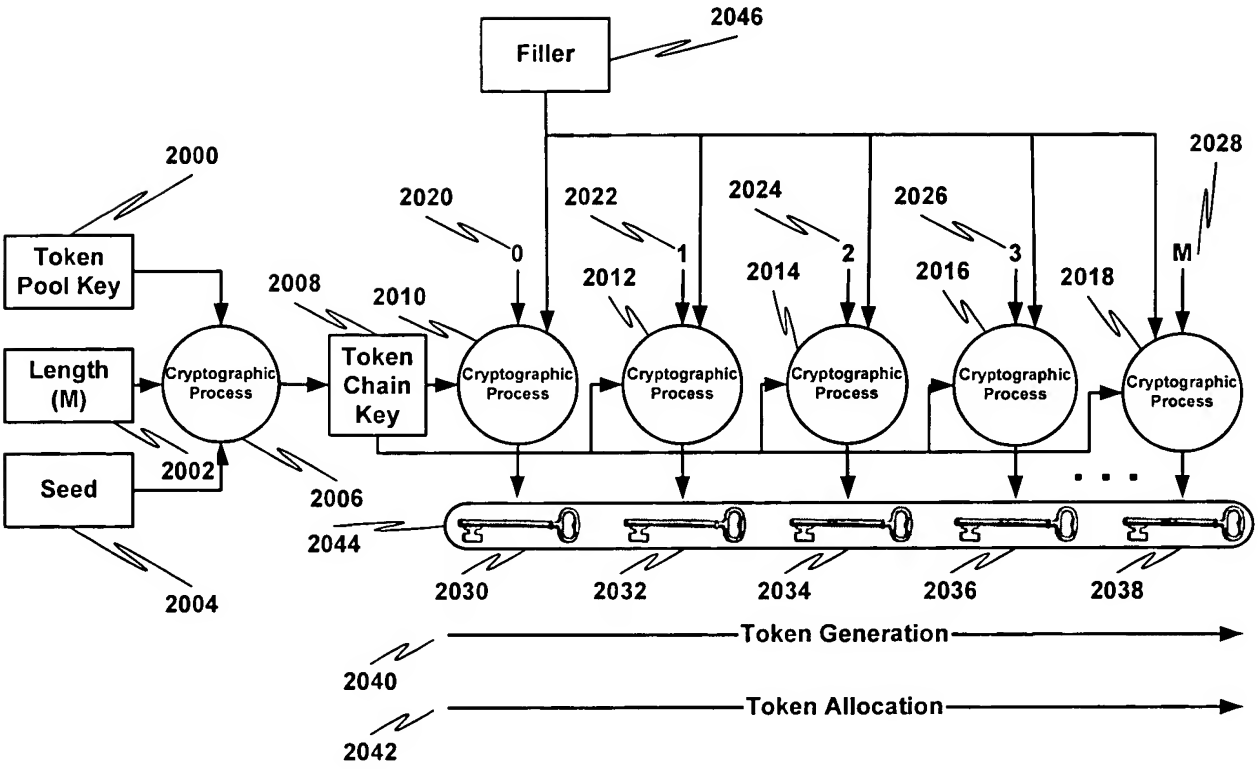
2046
Filler
2000
Token Pool Key
Length (M)
Seed
2004
2002
Cryptographic Process
2006
2008
Token Chain Key
2010
2020
0
2022
1
2024
2
2026
3
2028
M
2012
2014
2016
2018
Cryptographic Process
2044
2030
2032
2034
2036
2038
Token Generation
2040
Token Allocation
2042

FIG. 20

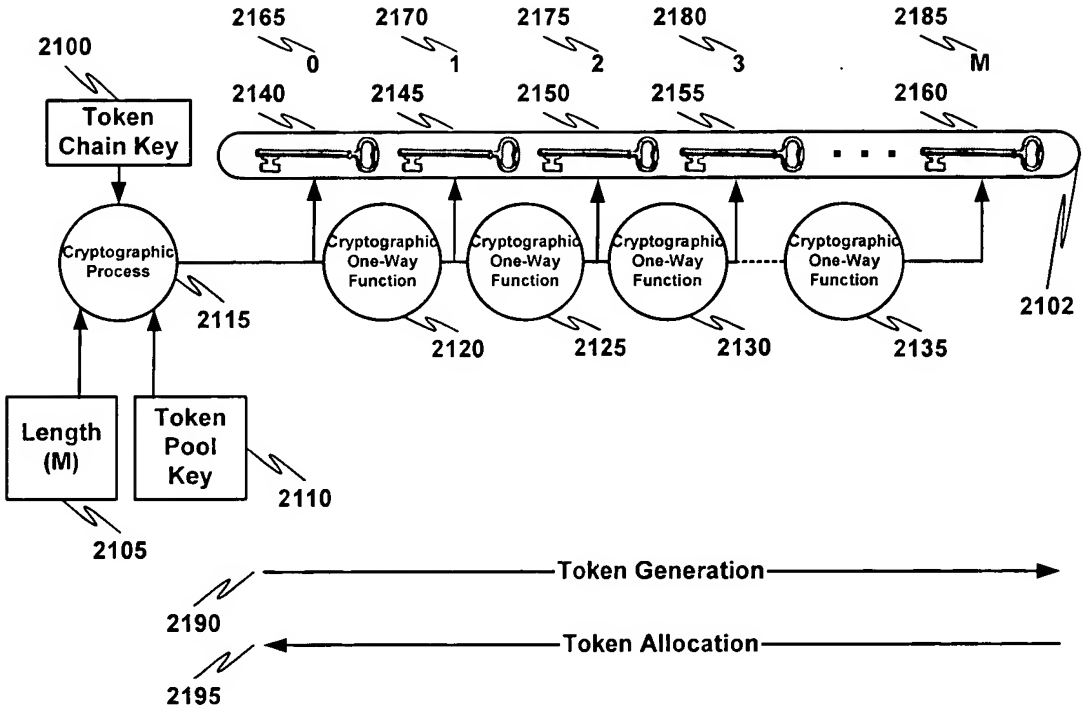
2100
Token Chain Key
2165
0
2170
1
2175
2
2180
3
2185
M
2140
2145
2150
2155
2160
Cryptographic Process
2115
Cryptographic One-Way Function
2120
Cryptographic One-Way Function
2125
Cryptographic One-Way Function
2130
Cryptographic One-Way Function
2135
2102
Length (M)
Token Pool Key
2110
2105
Token Generation
2190
Token Allocation
2195

FIG. 21

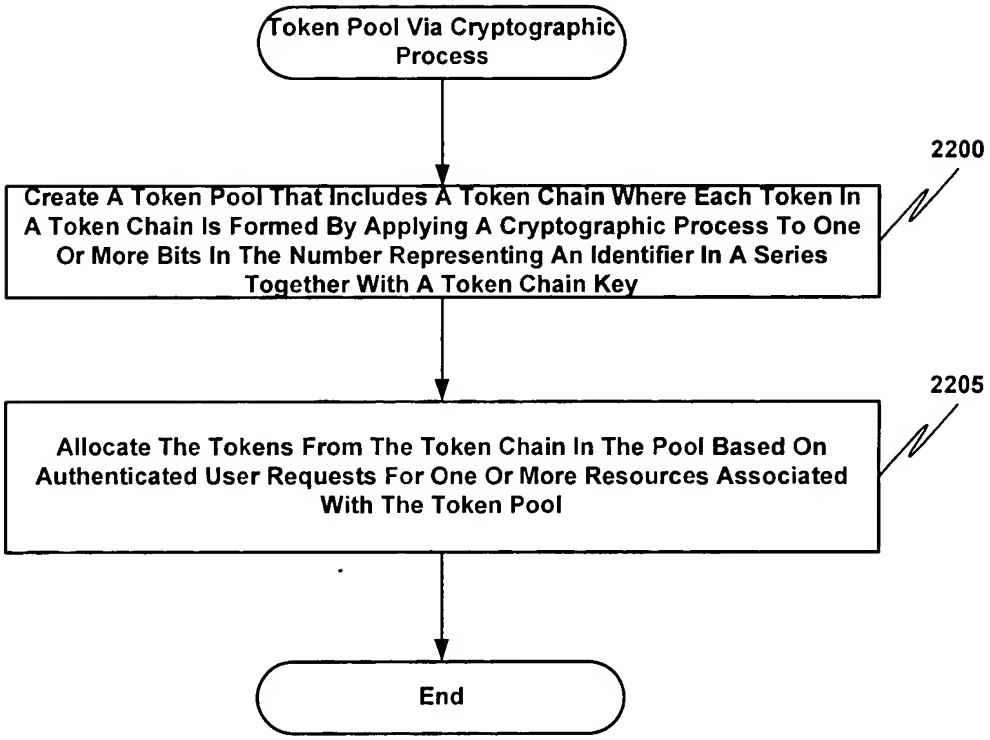
Token Pool Via Cryptographic Process
2200
Create A Token Pool That Includes A Token Chain Where Each Token In A Token Chain Is Formed By Applying A Cryptographic Process To One Or More Bits In The Number Representing An Identifier In A Series Together With A Token Chain Key
2205
Allocate The Tokens From The Token Chain In The Pool Based On Authenticated User Requests For One Or More Resources Associated With The Token Pool
End

FIG. 22

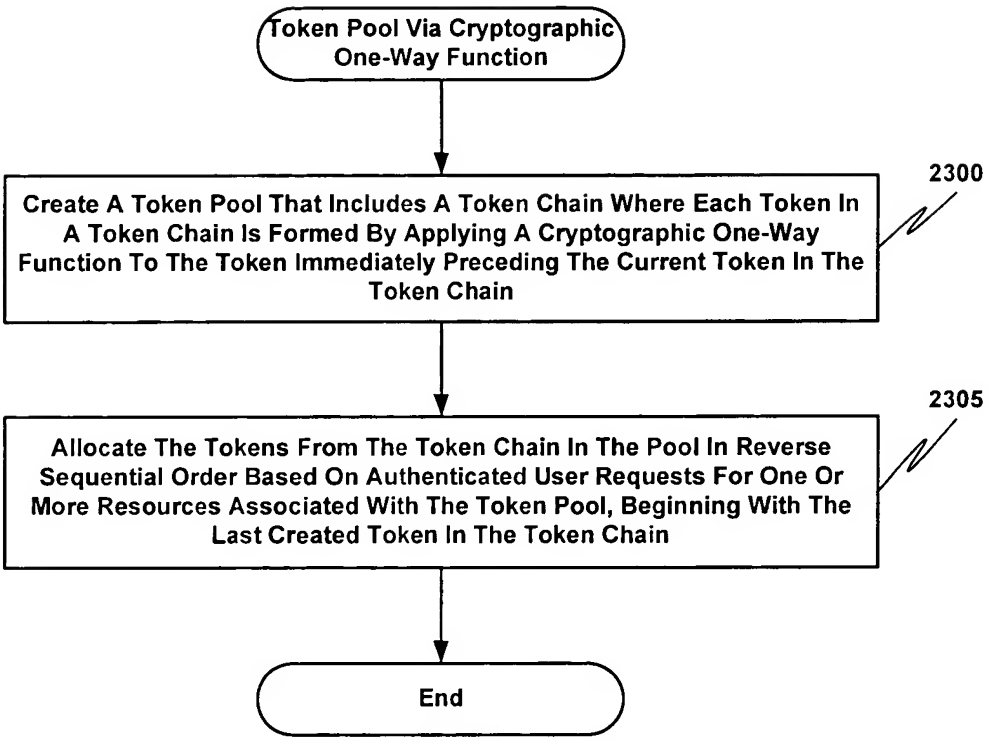
Token Pool Via Cryptographic One-Way Function
Create A Token Pool That Includes A Token Chain Where Each Token In A Token Chain Is Formed By Applying A Cryptographic One-Way Function To The Token Immediately Preceding The Current Token In The Token Chain
2300
Allocate The Tokens From The Token Chain In The Pool In Reverse Sequential Order Based On Authenticated User Requests For One Or More Resources Associated With The Token Pool, Beginning With The Last Created Token In The Token Chain
2305
End

FIG. 23

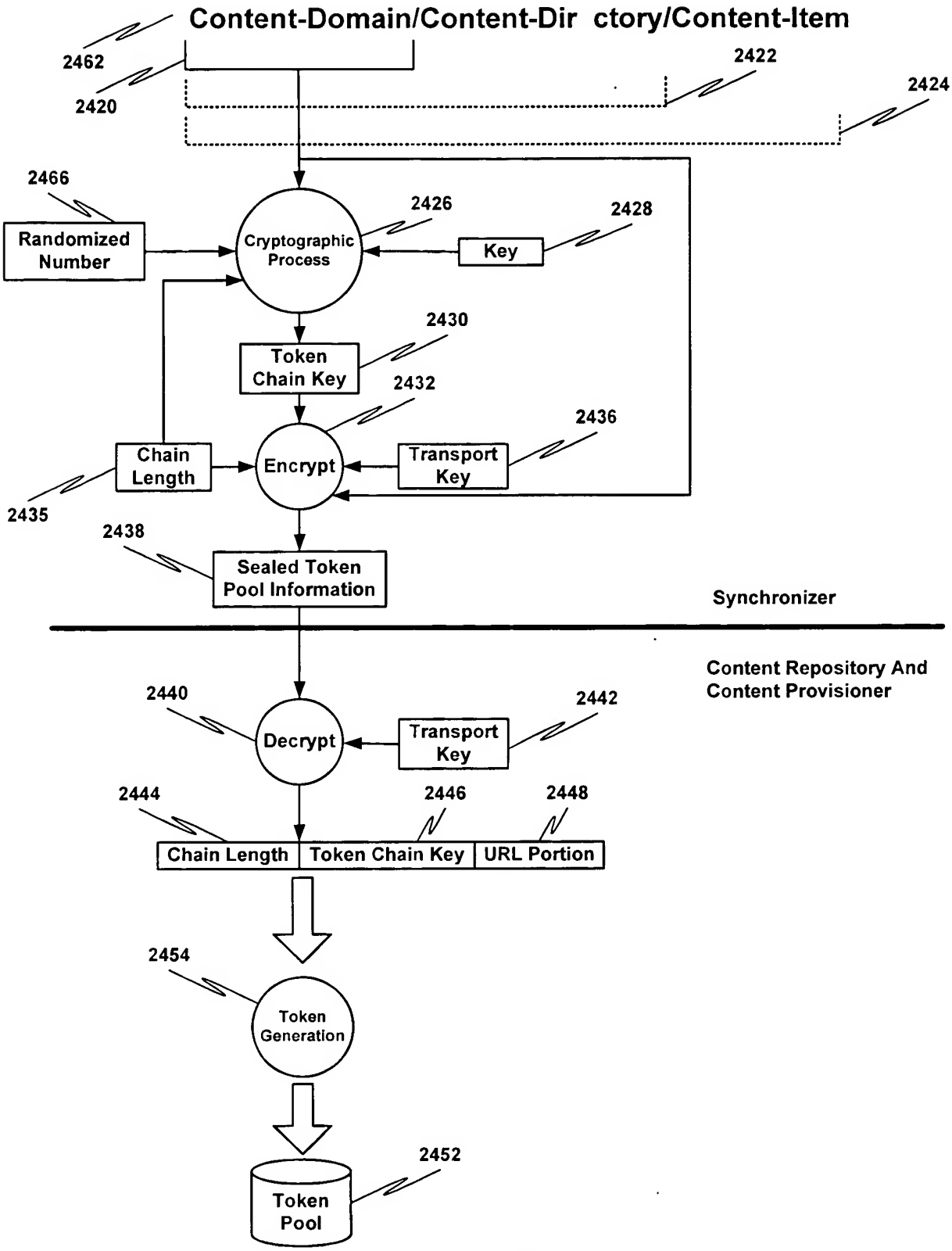
Content-Domain/Content-Dir ctory/Content-Item
2462
2420
2422
2424
2466
Randomized Number
Cryptographic Process
2426
Key
2428
2430
Token Chain Key
2432
2436
Chain Length
Encrypt
Transport Key
2435
2438
Sealed Token Pool Information
Synchronizer
Content Repository And Content Provisioner
2440
Decrypt
2442
Transport Key
2444
2446
2448
Chain Length
Token Chain Key
URL Portion
2454
Token Generation
2452
Token Pool

FIG. 24

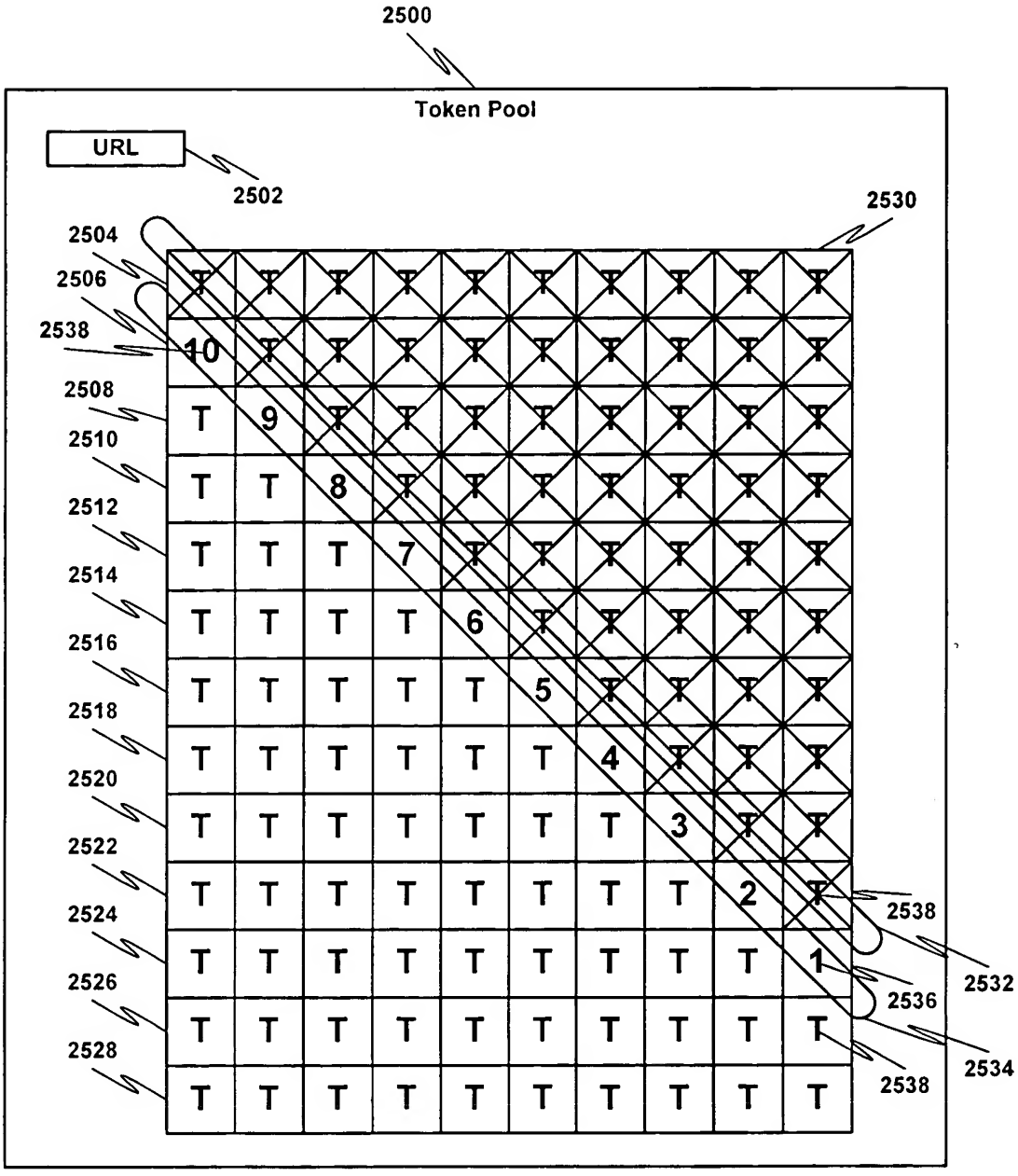
2500
Token Pool
URL
2502
2530
2504
2506
2538
2508
2510
2512
2514
2516
2518
2520
2522
2524
2526
2528
2538
2532
2536
2534
2538

FIG. 25

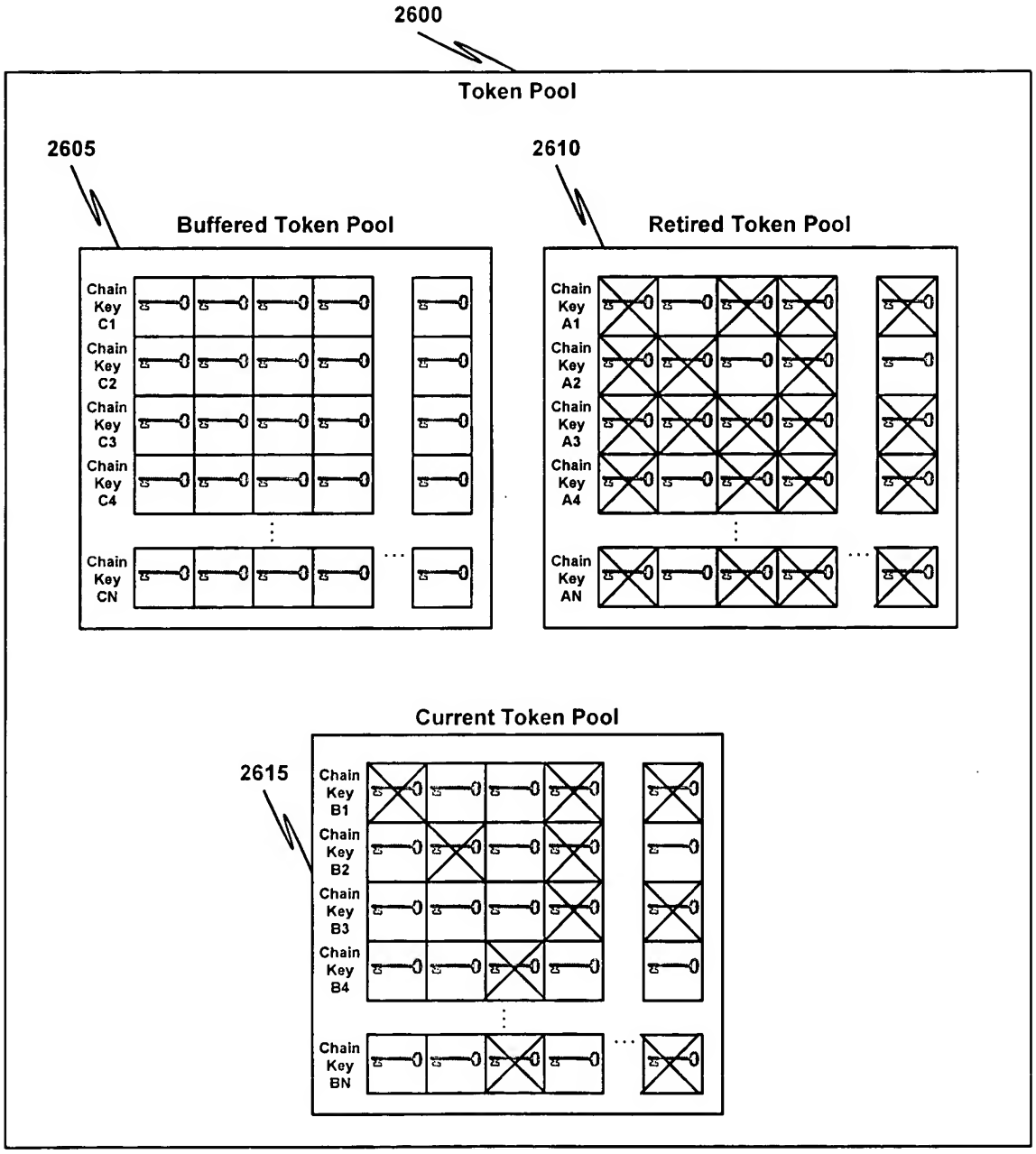
2600
Token Pool
2605
Buffered Token Pool
Chain Key C1
Chain Key C2
Chain Key C3
Chain Key C4
Chain Key CN
2610
Retired Token Pool
Chain Key A1
Chain Key A2
Chain Key A3
Chain Key A4
Chain Key AN
Current Token Pool
2615
Chain Key B1
Chain Key B2
Chain Key B3
Chain Key B4
Chain Key BN

FIG. 26

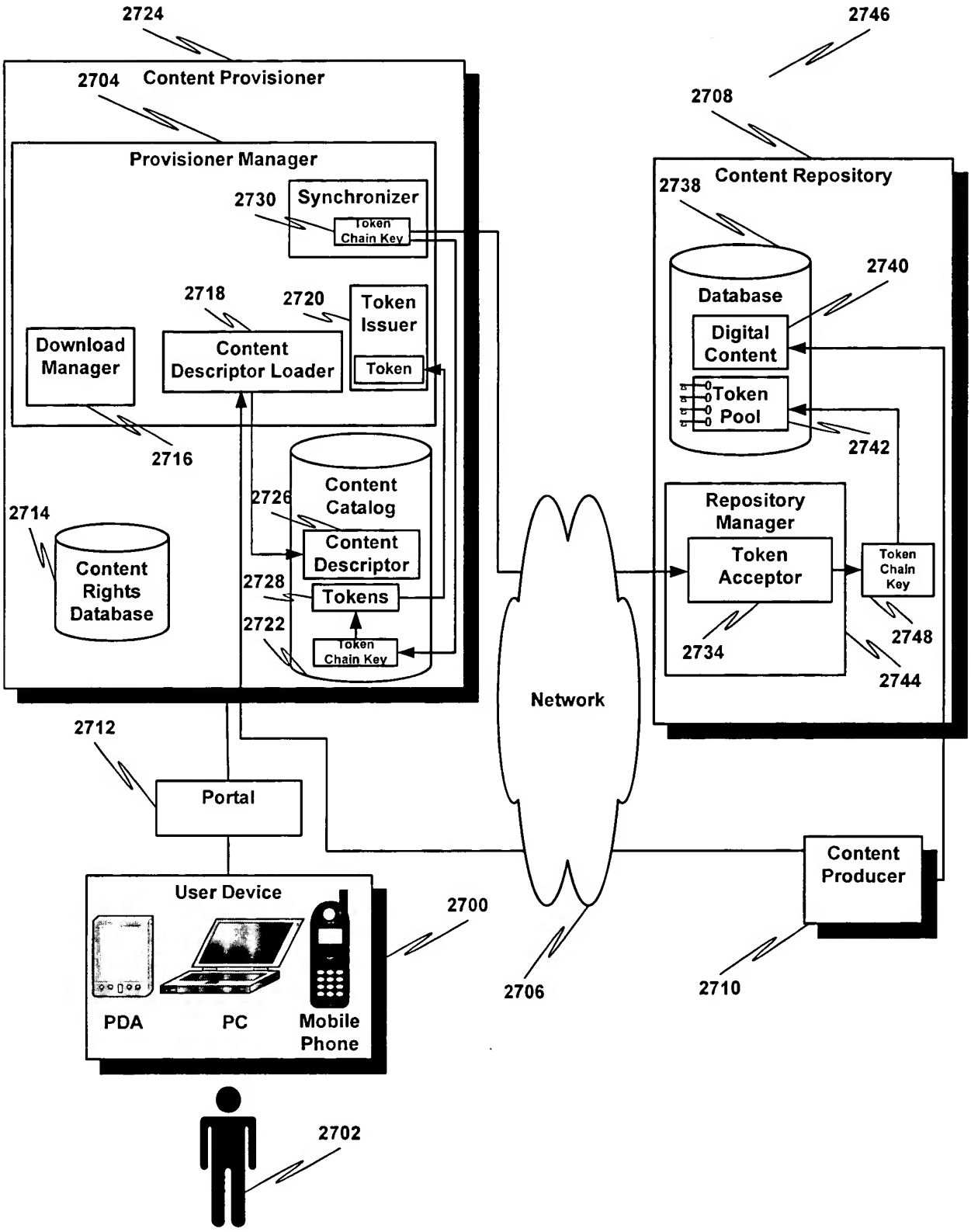
2724
2746
2704 Content Provisioner
2708
Provisioner Manager
Content Repository
2730 Synchronizer
Token Chain Key
2738
2740
Database
2718
2720
Token Issuer
Digital Content
Download Manager
Content Descriptor Loader
Token
Token Pool
2742
2716
Content Catalog
2726
Content Descriptor
2714
Repository Manager
Content Rights Database
2728
Tokens
Token Acceptor
Token Chain Key
2722
Token Chain Key
2748
2734
2744
Network
2712
Portal
Content Producer
User Device
2700
PDA
PC
Mobile Phone
2706
2710
2702

FIG. 27

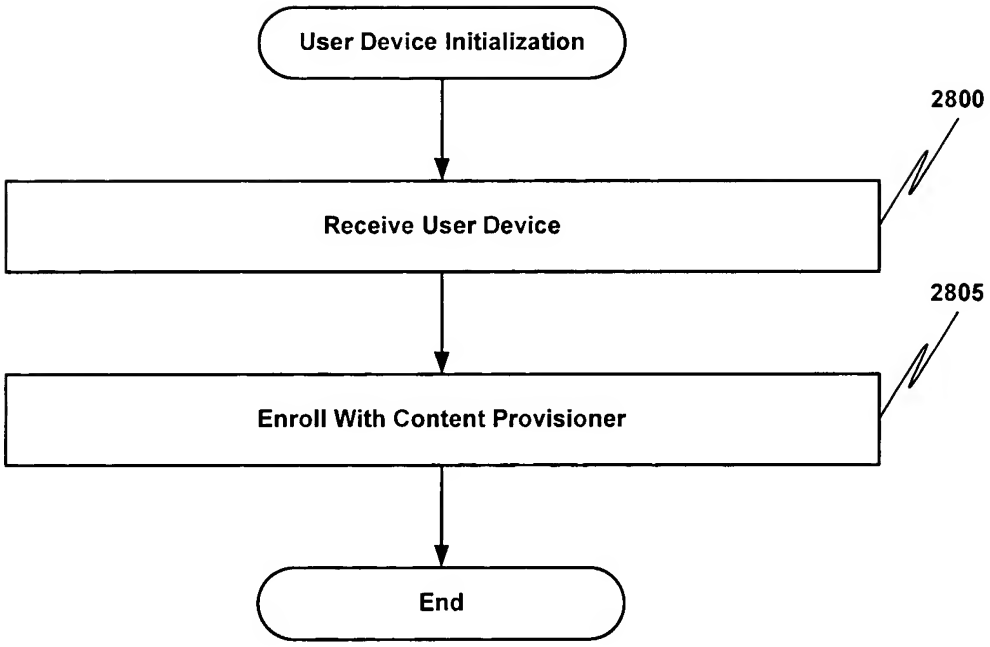
User Device Initialization
2800
Receive User Device
2805
Enroll With Content Provisioner
End

FIG. 28

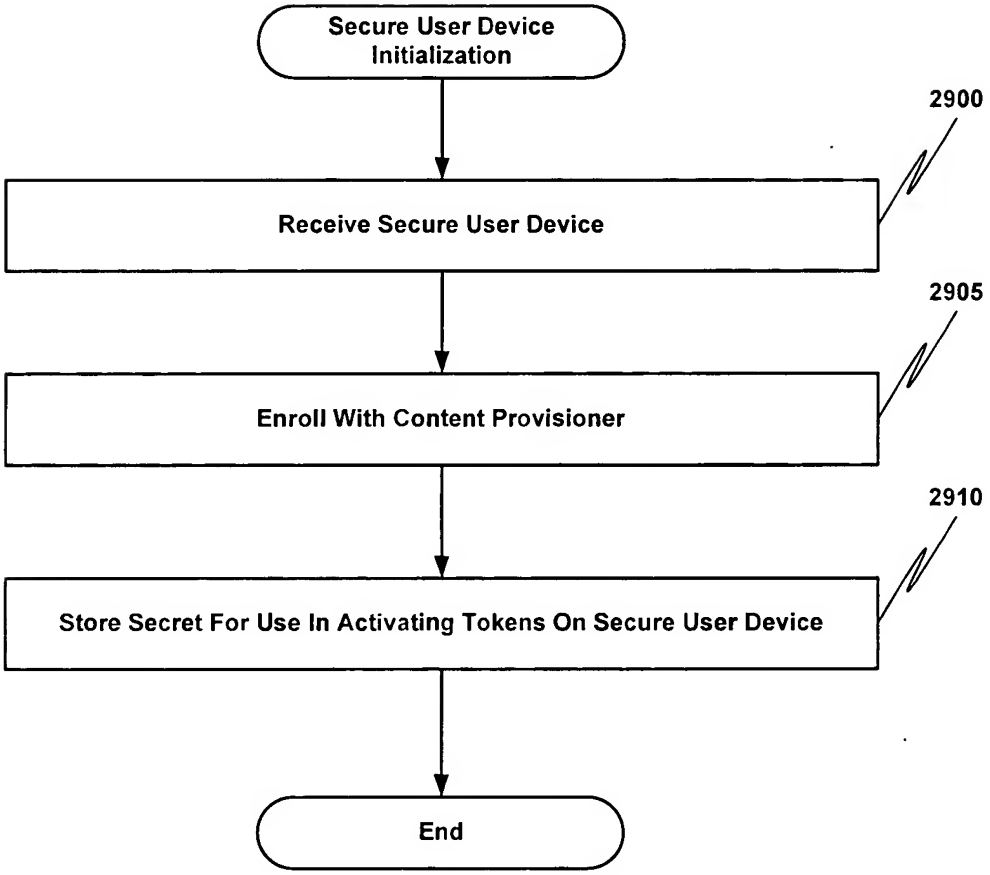
Secure User Device Initialization
2900
Receive Secure User Device
2905
Enroll With Content Provisioner
2910
Store Secret For Use In Activating Tokens On Secure User Device
End

FIG. 29

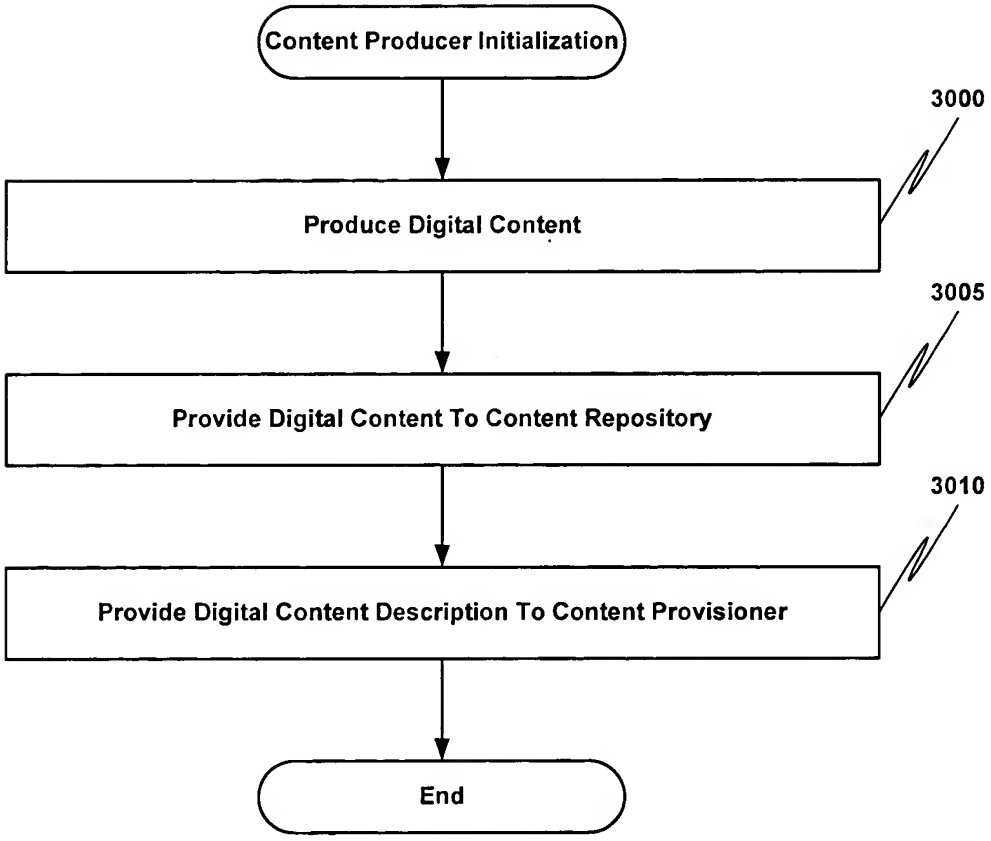
Content Producer Initialization
3000
Produce Digital Content
3005
Provide Digital Content To Content Repository
3010
Provide Digital Content Description To Content Provisioner
End

FIG. 30

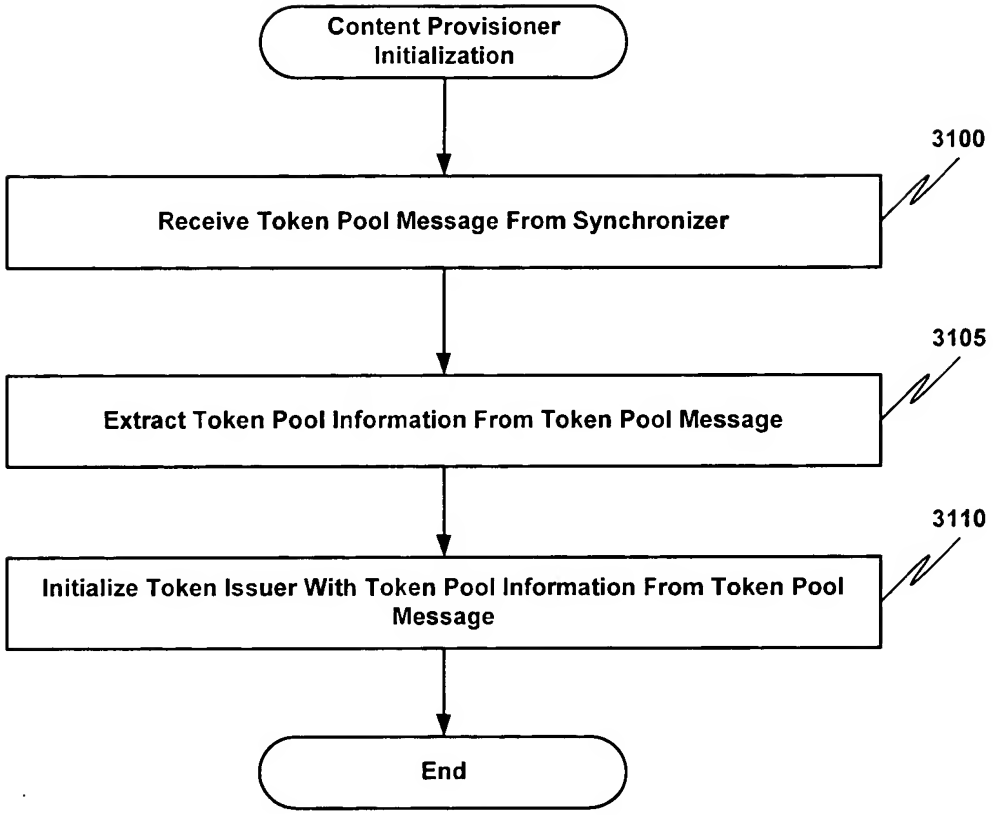
Content Provisioner Initialization
3100
Receive Token Pool Message From Synchronizer
3105
Extract Token Pool Information From Token Pool Message
3110
Initialize Token Issuer With Token Pool Information From Token Pool Message
End

FIG. 31

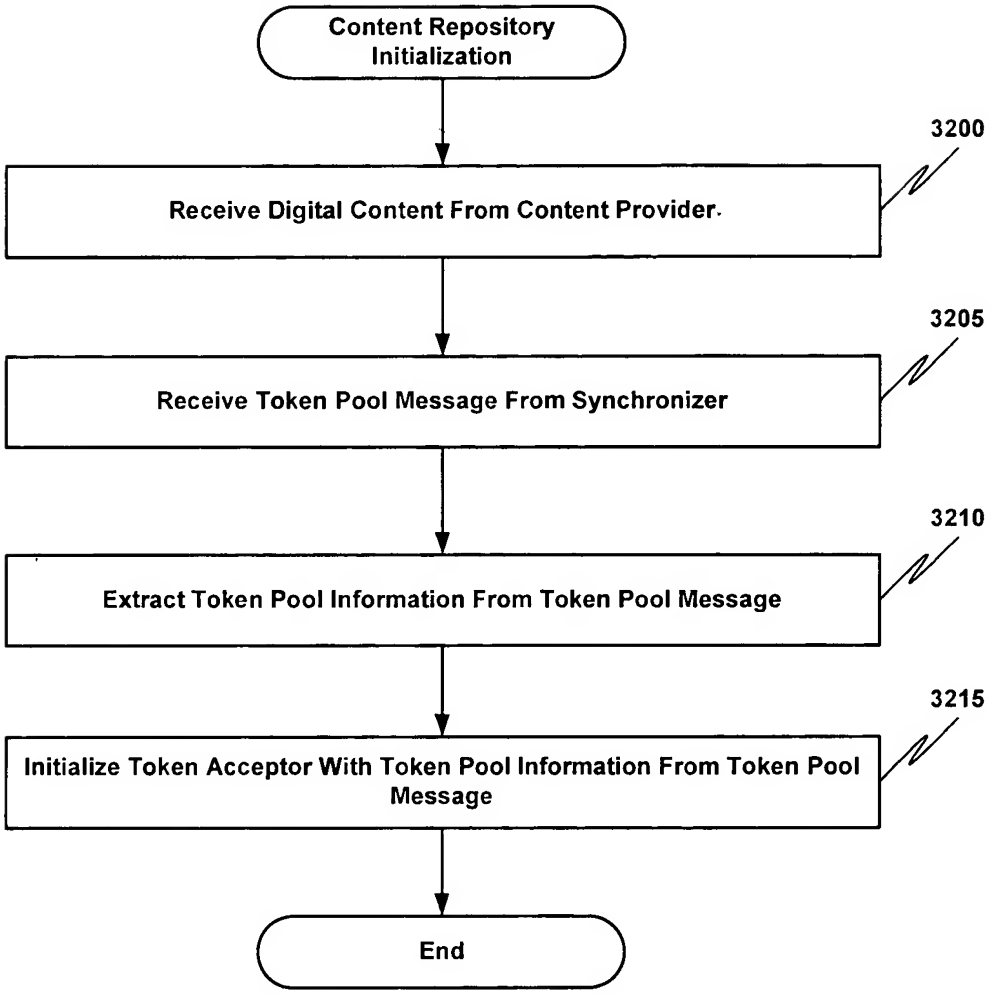
Content Repository Initialization
3200
Receive Digital Content From Content Provider.
3205
Receive Token Pool Message From Synchronizer
3210
Extract Token Pool Information From Token Pool Message
3215
Initialize Token Acceptor With Token Pool Information From Token Pool Message
End

FIG. 32

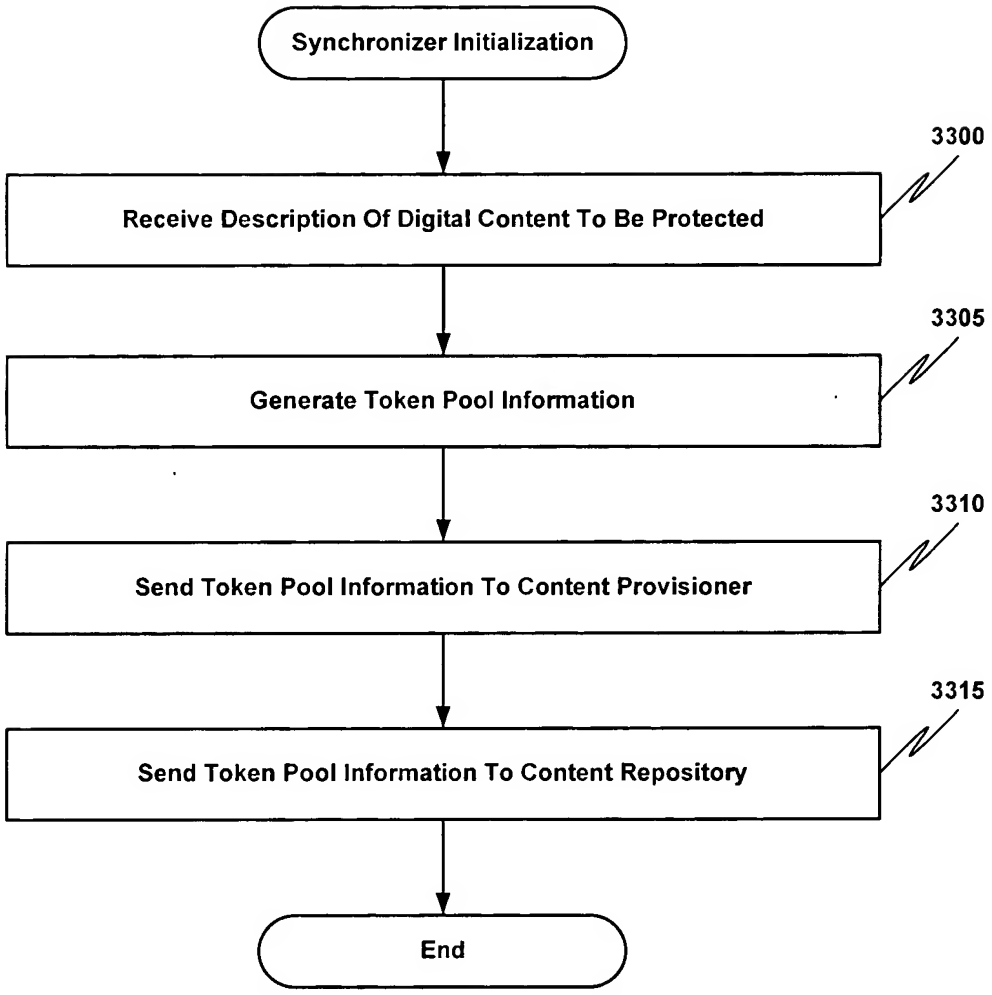
Synchronizer Initialization
3300
Receive Description Of Digital Content To Be Protected
3305
Generate Token Pool Information
3310
Send Token Pool Information To Content Provisioner
3315
Send Token Pool Information To Content Repository
End

FIG. 33

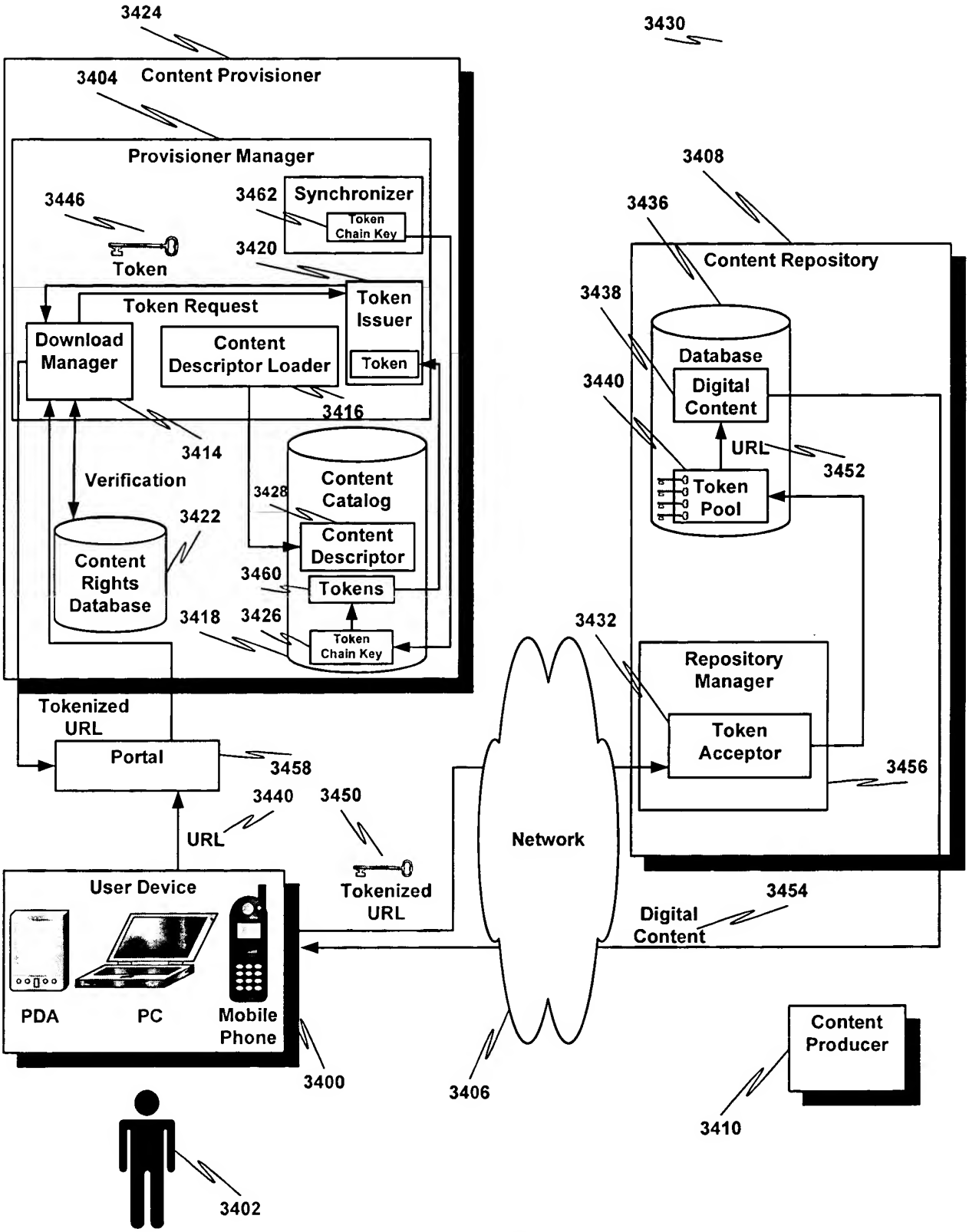
3424
3430
3404 Content Provisioner
Provisioner Manager
3408
3436
3446
3462 Synchronizer
Token Chain Key
Token
3420
Content Repository
Token Request
Token Issuer
3438
Download Manager
Content Descriptor Loader
Token
Database
Digital Content
3440
3416
URL
3452
3414
Verification
Content Catalog
Token Pool
3428
3422
Content Descriptor
Content Rights Database
3460
Tokens
3418
3426
Token Chain Key
3432
Repository Manager
Tokenized URL
Token Acceptor
Portal
3458
3456
3440
3450
URL
Network
Tokenized URL
3454
Digital Content
User Device
PDA
PC
Mobile Phone
3400
3406
Content Producer
3410
3402

FIG. 34

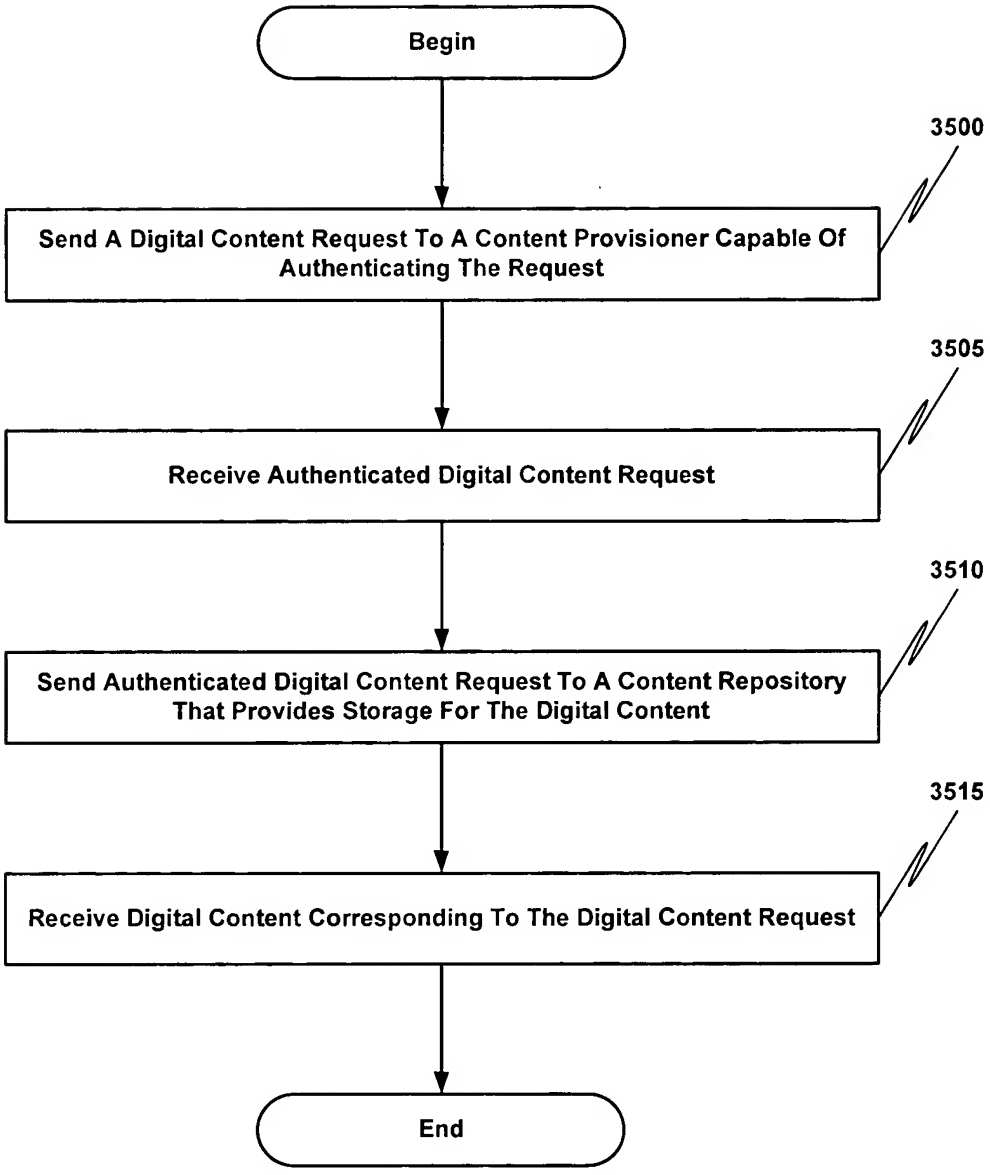
Begin
3500
Send A Digital Content Request To A Content Provisioner Capable Of Authenticating The Request
3505
Receive Authenticated Digital Content Request
3510
Send Authenticated Digital Content Request To A Content Repository That Provides Storage For The Digital Content
3515
Receive Digital Content Corresponding To The Digital Content Request
End

FIG. 35

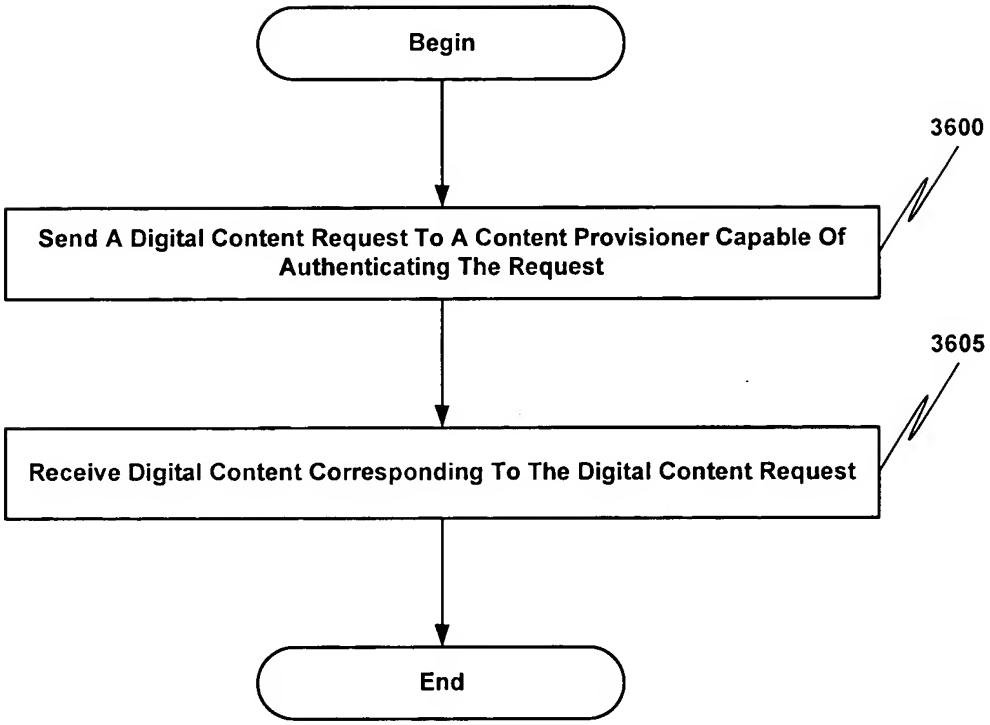
Begin
3600
Send A Digital Content Request To A Content Provisioner Capable Of Authenticating The Request
3605
Receive Digital Content Corresponding To The Digital Content Request
End

FIG. 36

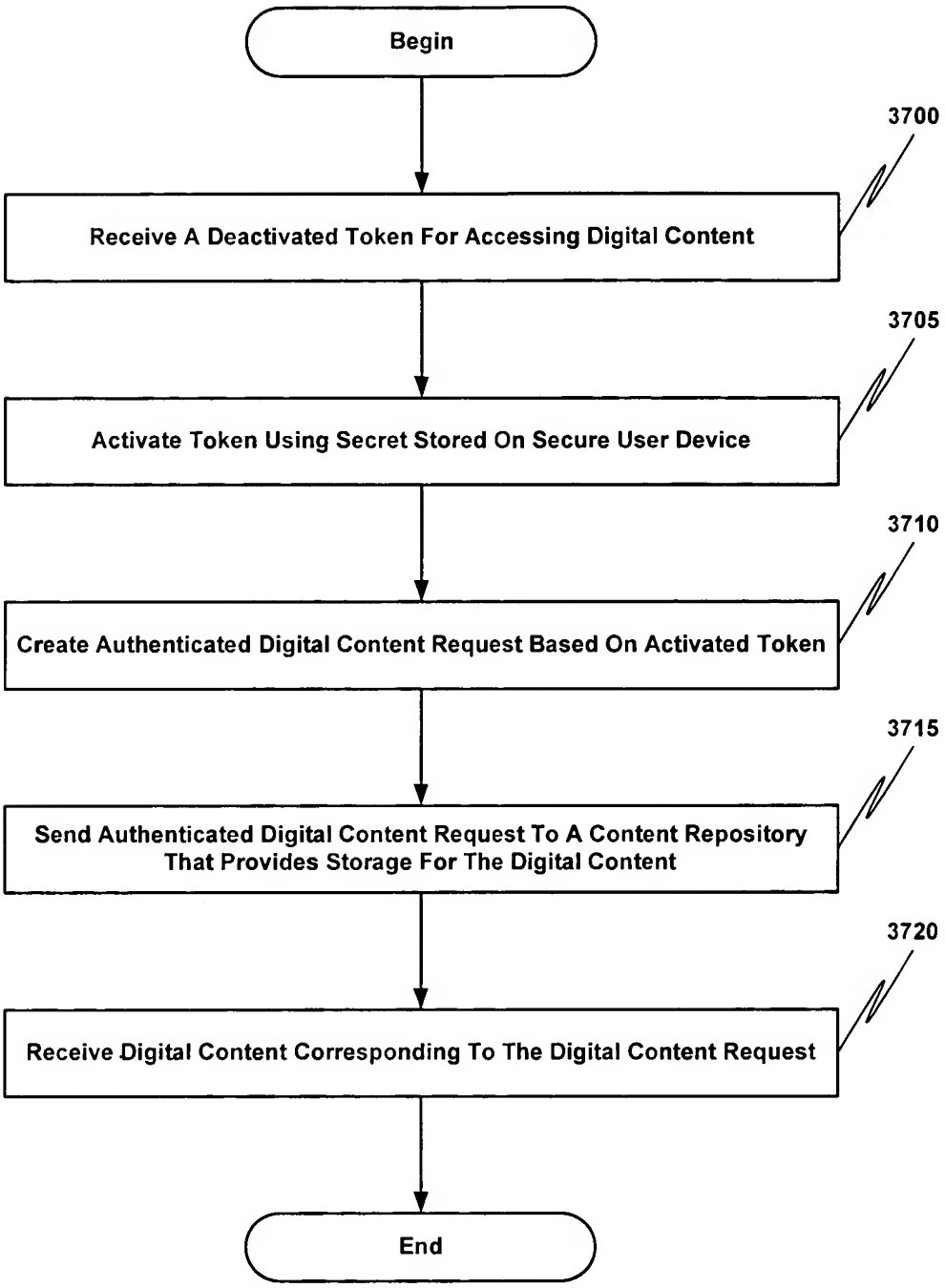
Begin
3700
Receive A Deactivated Token For Accessing Digital Content
3705
Activate Token Using Secret Stored On Secure User Device
3710
Create Authenticated Digital Content Request Based On Activated Token
3715
Send Authenticated Digital Content Request To A Content Repository That Provides Storage For The Digital Content
3720
Receive Digital Content Corresponding To The Digital Content Request
End

FIG. 37

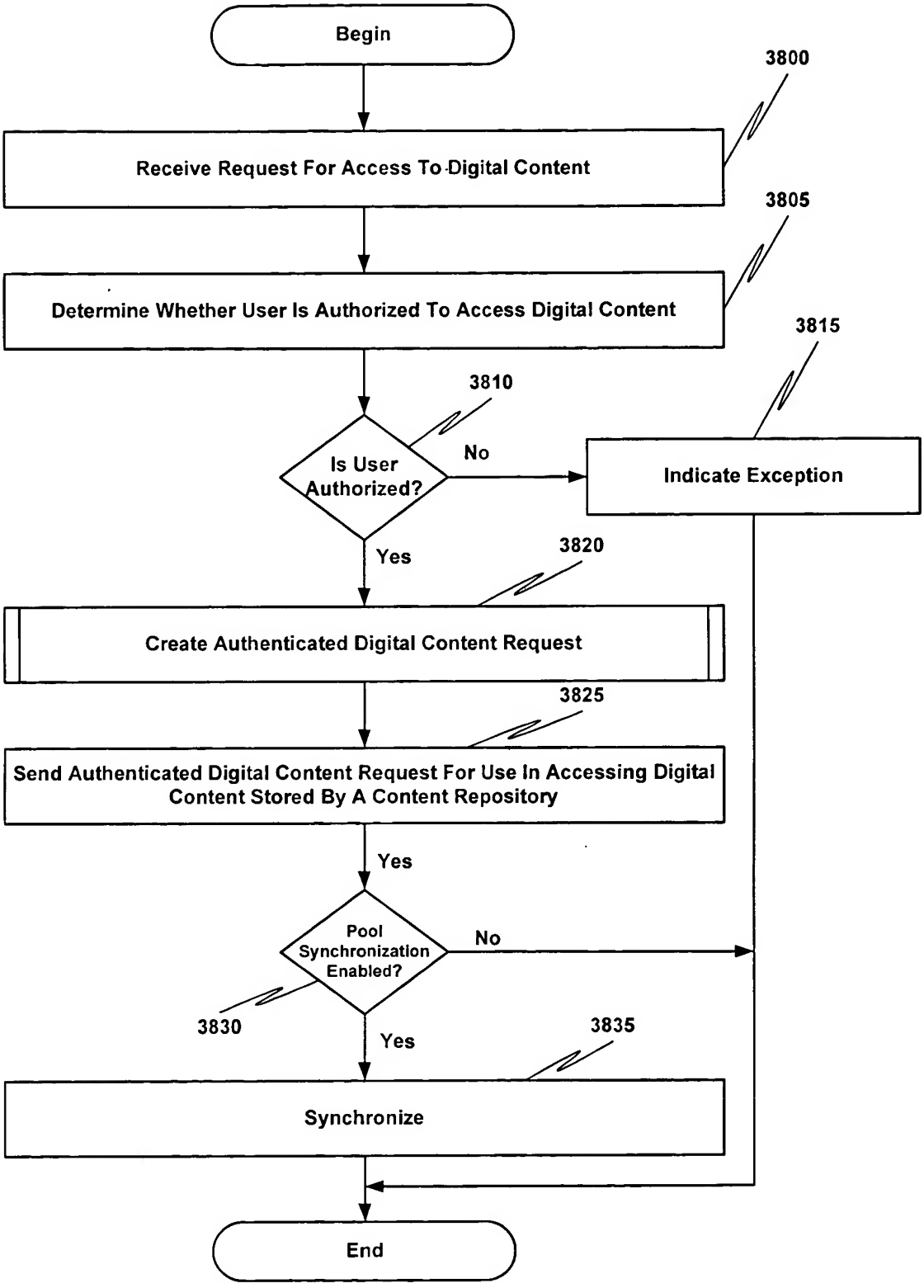
Begin
3800
Receive Request For Access To Digital Content
3805
Determine Whether User Is Authorized To Access Digital Content
3815
3810
Is User Authorized?
No
Indicate Exception
Yes
3820
Create Authenticated Digital Content Request
3825
Send Authenticated Digital Content Request For Use In Accessing Digital Content Stored By A Content Repository
Yes
Pool Synchronization Enabled?
No
3830
Yes
3835
Synchronize
End

FIG. 38

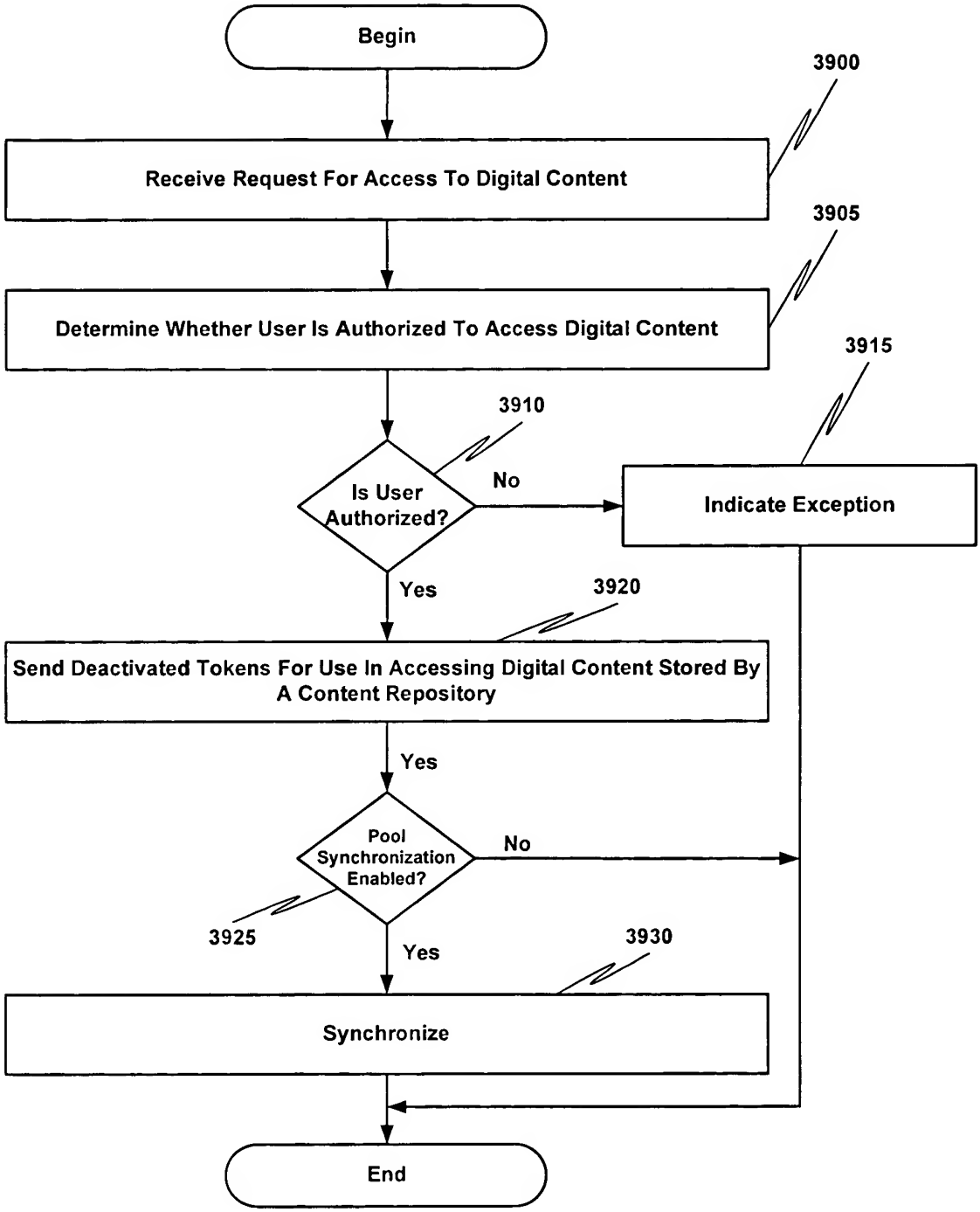
Begin
3900
Receive Request For Access To Digital Content
3905
Determine Whether User Is Authorized To Access Digital Content
3915
3910
Is User Authorized?
No
Indicate Exception
Yes
3920
Send Deactivated Tokens For Use In Accessing Digital Content Stored By A Content Repository
Yes
Pool Synchronization Enabled?
No
3925
Yes
3930
Synchronize
End

FIG. 39

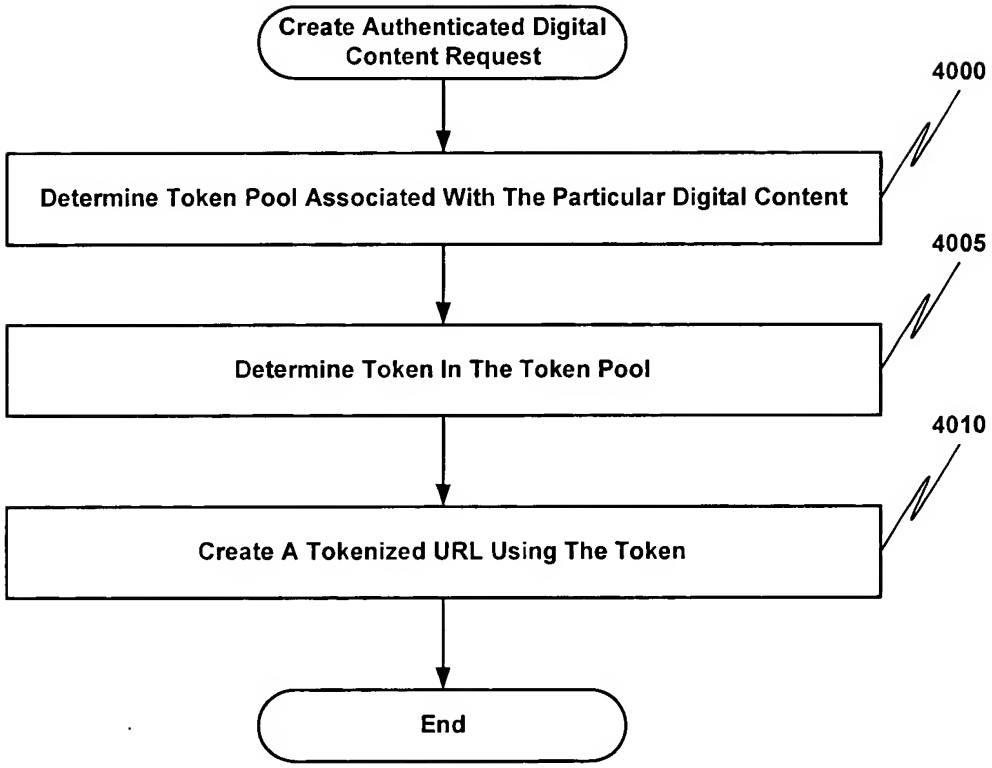
Create Authenticated Digital Content Request
4000
Determine Token Pool Associated With The Particular Digital Content
4005
Determine Token In The Token Pool
4010
Create A Tokenized URL Using The Token
End

FIG. 40

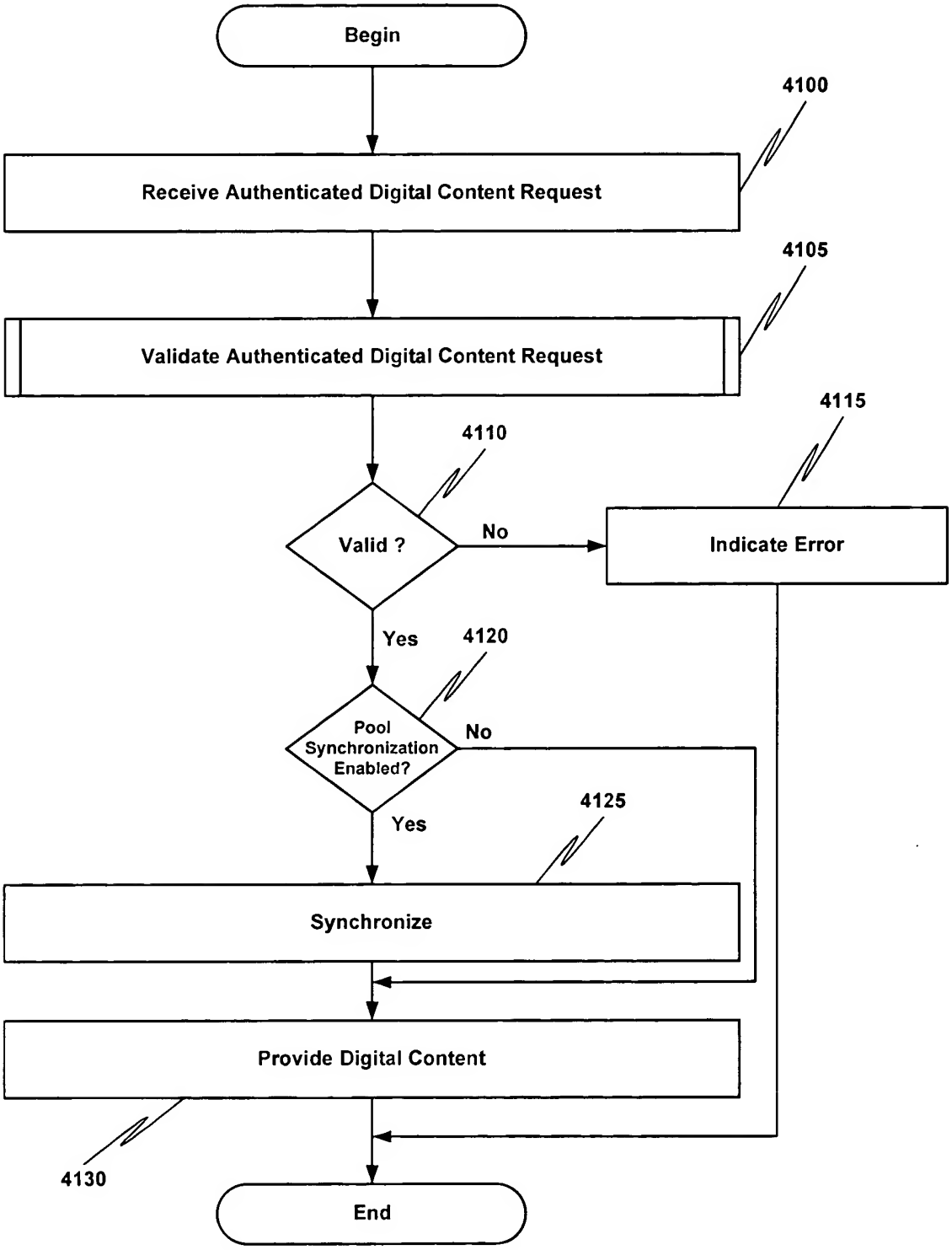
Begin
4100
Receive Authenticated Digital Content Request
4105
Validate Authenticated Digital Content Request
4115
4110
Valid ?
No
Indicate Error
Yes
4120
Pool Synchronization Enabled?
No
4125
Yes
Synchronize
Provide Digital Content
4130
End

FIG. 41

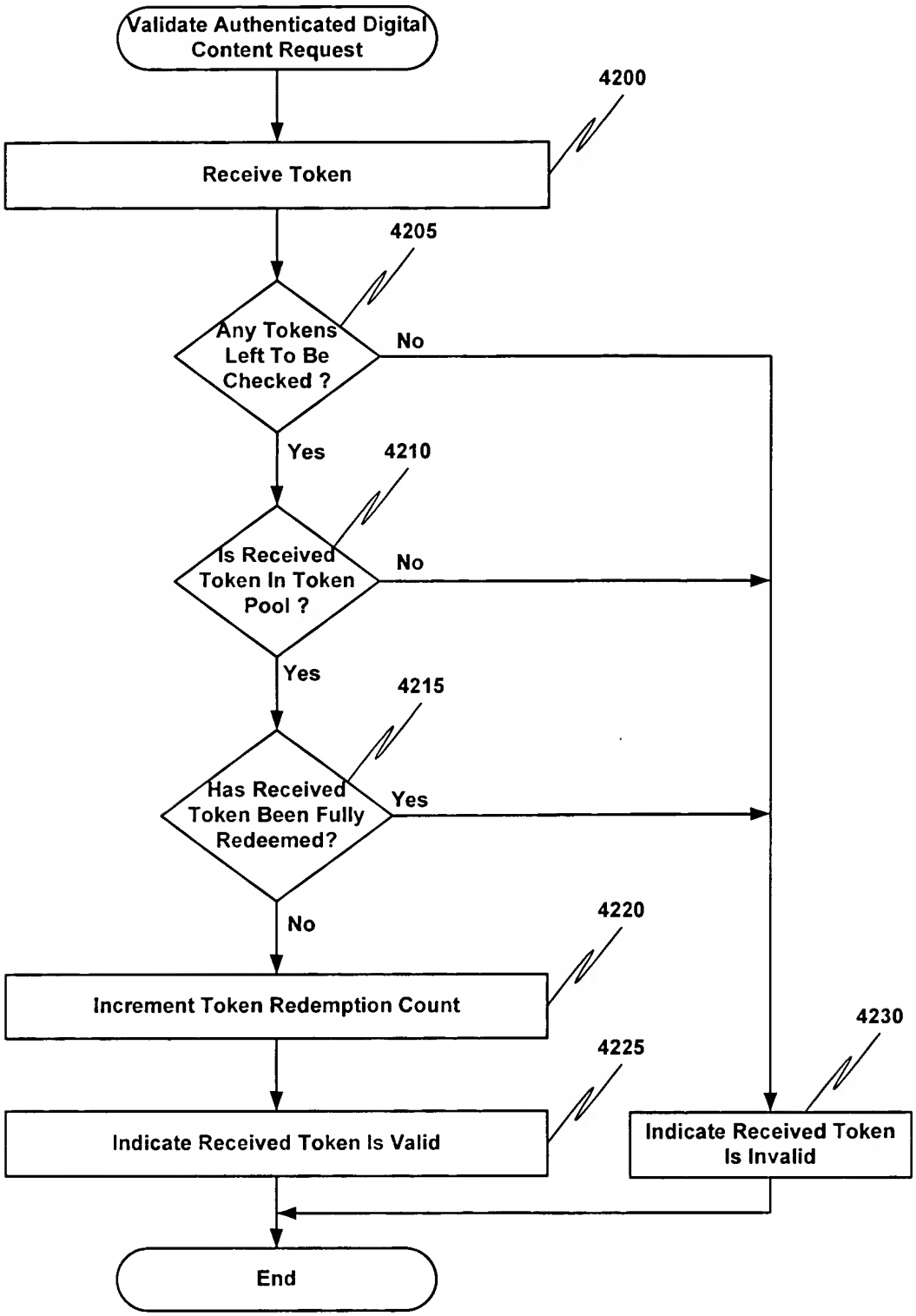
Validate Authenticated Digital Content Request
4200
Receive Token
4205
Any Tokens Left To Be Checked ?
No
Yes
4210
Is Received Token In Token Pool ?
No
Yes
4215
Has Received Token Been Fully Redeemed?
Yes
No
4220
Increment Token Redemption Count
4225
Indicate Received Token Is Valid
4230
Indicate Received Token Is Invalid
End

FIG. 42

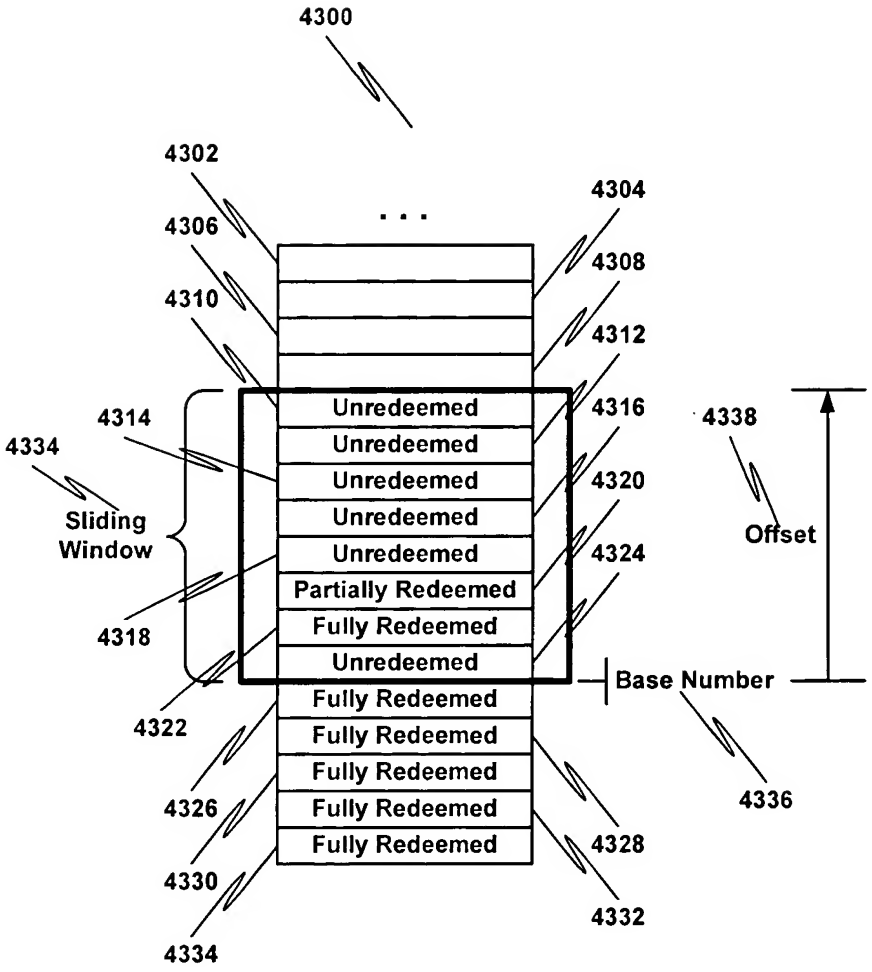
4300
4302
4304
4306
4308
4310
4312
4314
4316
4334
4338
Unredeemed
Unredeemed
Unredeemed
Unredeemed
Unredeemed
Partially Redeemed
Fully Redeemed
Unredeemed
Fully Redeemed
Fully Redeemed
Fully Redeemed
Fully Redeemed
Fully Redeemed
Sliding Window
Offset
4318
4320
4322
4324
Base Number
4326
4328
4330
4332
4334
4336

FIG. 43

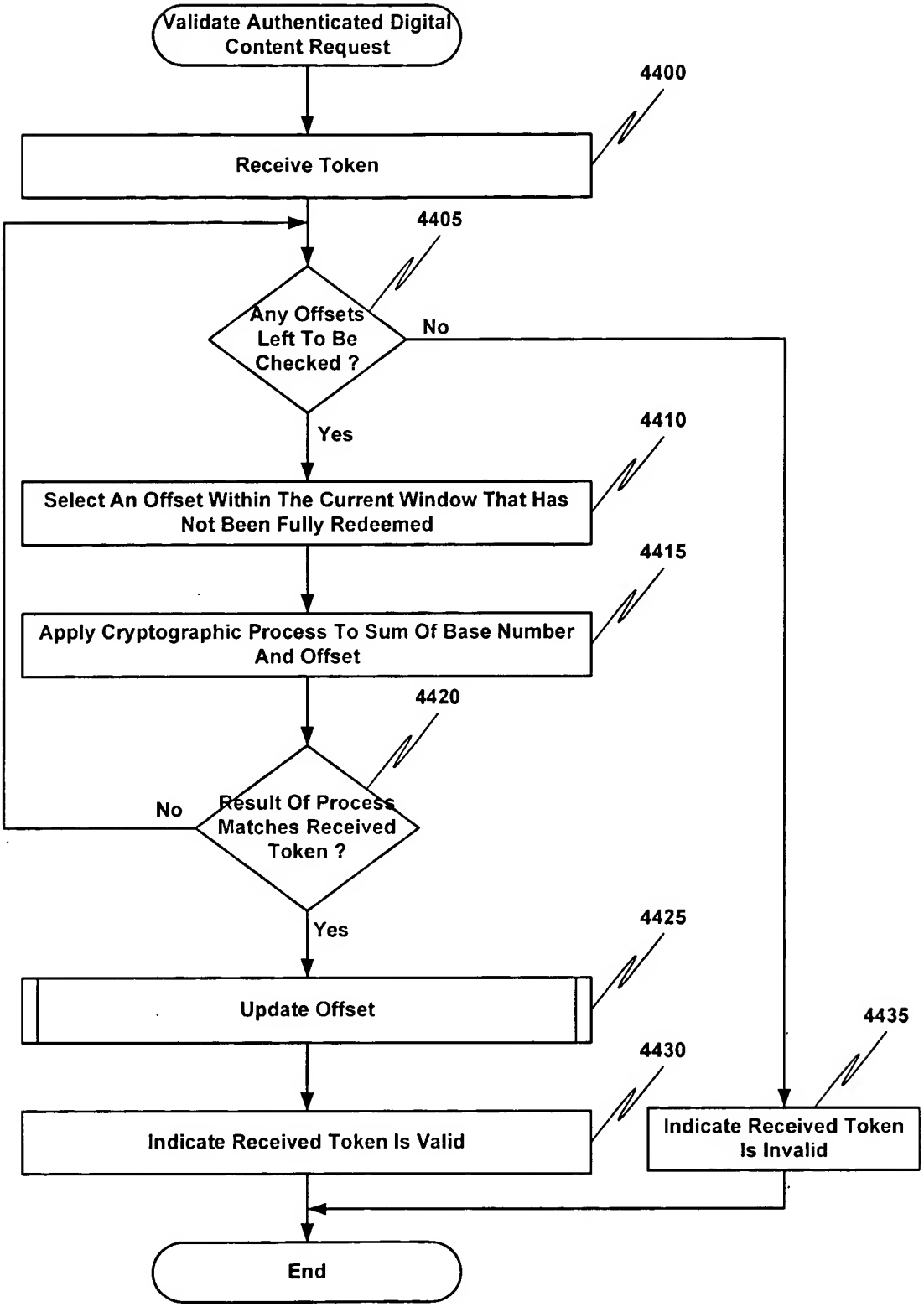
Validate Authenticated Digital Content Request
4400
Receive Token
4405
Any Offsets Left To Be Checked ?
No
Yes
4410
Select An Offset Within The Current Window That Has Not Been Fully Redeemed
4415
Apply Cryptographic Process To Sum Of Base Number And Offset
4420
Result Of Process Matches Received Token ?
No
Yes
4425
Update Offset
4430
Indicate Received Token Is Valid
4435
Indicate Received Token Is Invalid
End

FIG. 44

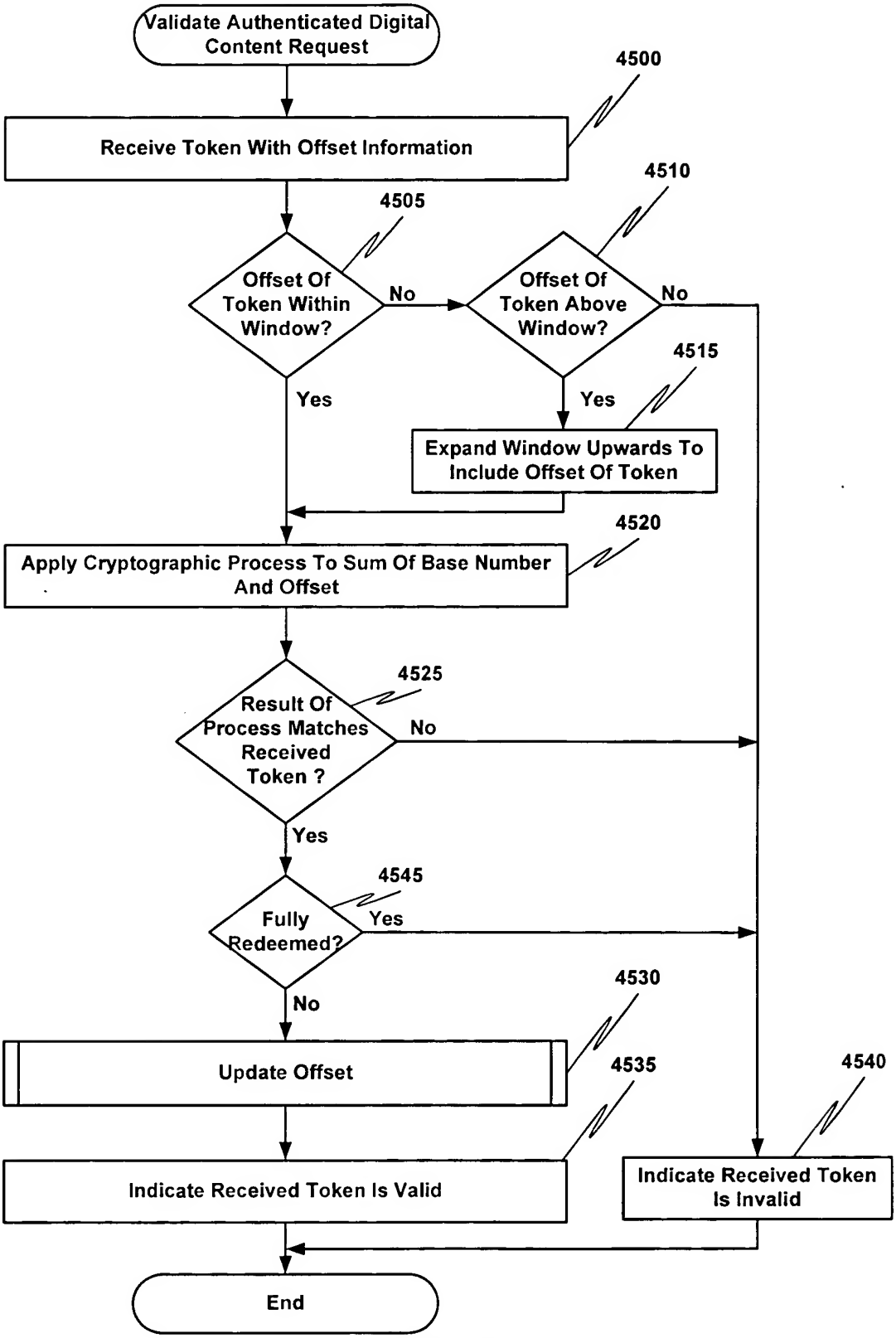
Validate Authenticated Digital Content Request
4500
Receive Token With Offset Information
4505
Offset Of Token Within Window?
No
4510
Offset Of Token Above Window?
No
Yes
Yes
4515
Expand Window Upwards To Include Offset Of Token
4520
Apply Cryptographic Process To Sum Of Base Number And Offset
4525
Result Of Process Matches Received Token ?
No
Yes
4545
Fully Redeemed?
Yes
No
4530
Update Offset
4535
Indicate Received Token Is Valid
4540
Indicate Received Token Is Invalid
End

FIG. 45

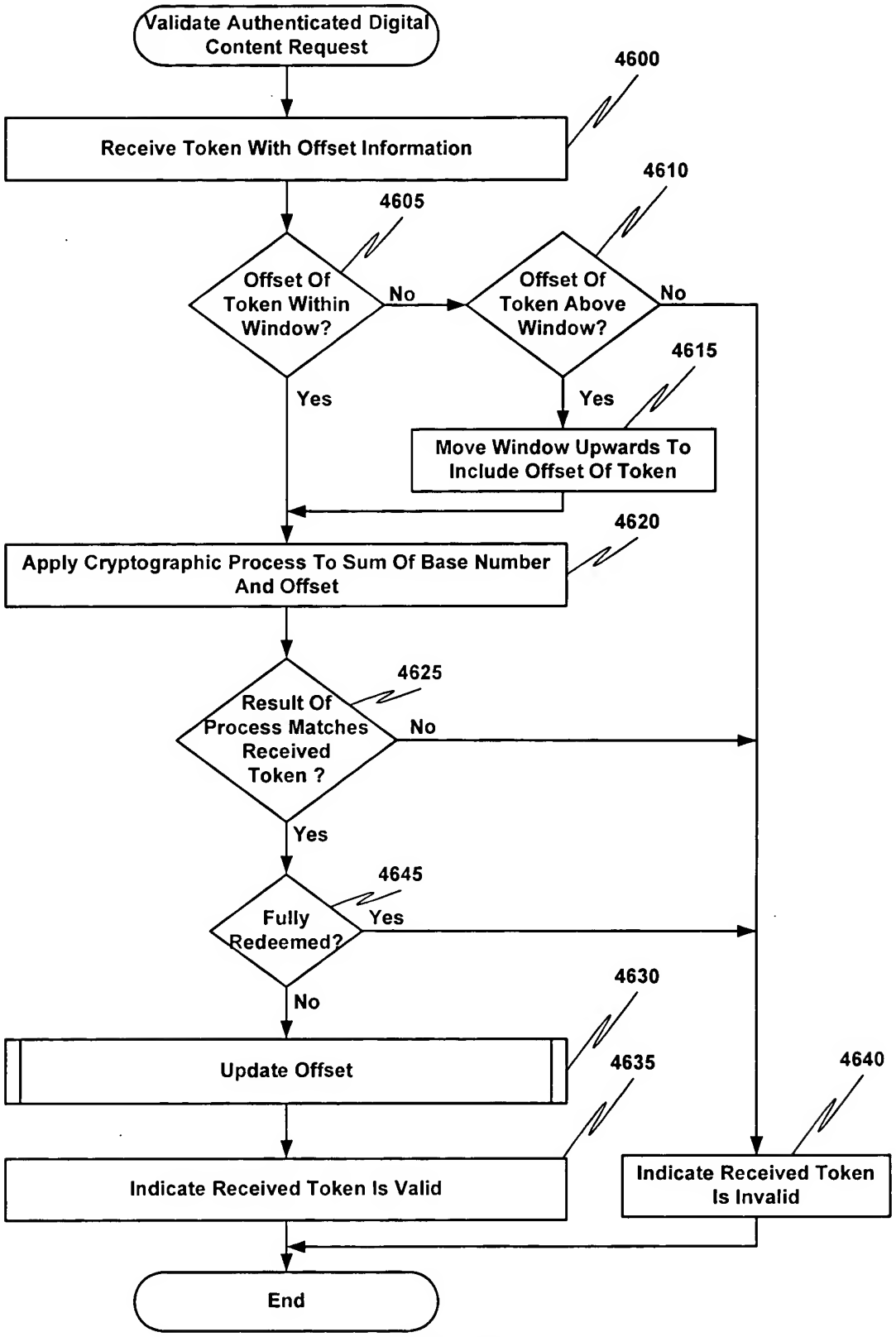
Validate Authenticated Digital Content Request
4600
Receive Token With Offset Information
4610
4605
Offset Of Token Within Window?
No
Offset Of Token Above Window?
No
4615
Yes
Yes
Move Window Upwards To Include Offset Of Token
4620
Apply Cryptographic Process To Sum Of Base Number And Offset
4625
Result Of Process Matches Received Token ?
No
Yes
4645
Fully Redeemed?
Yes
4630
No
Update Offset
4635
4640
Indicate Received Token Is Valid
Indicate Received Token Is Invalid
End

FIG. 46

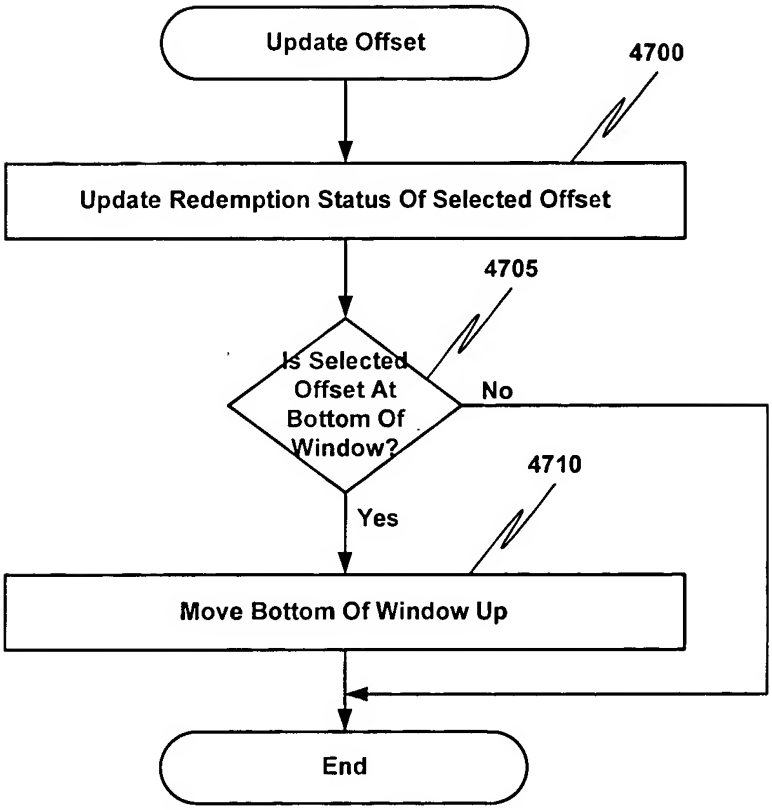
Update Offset
4700
Update Redemption Status Of Selected Offset
4705
Is Selected Offset At Bottom Of Window?
No
4710
Yes
Move Bottom Of Window Up
End

FIG. 47

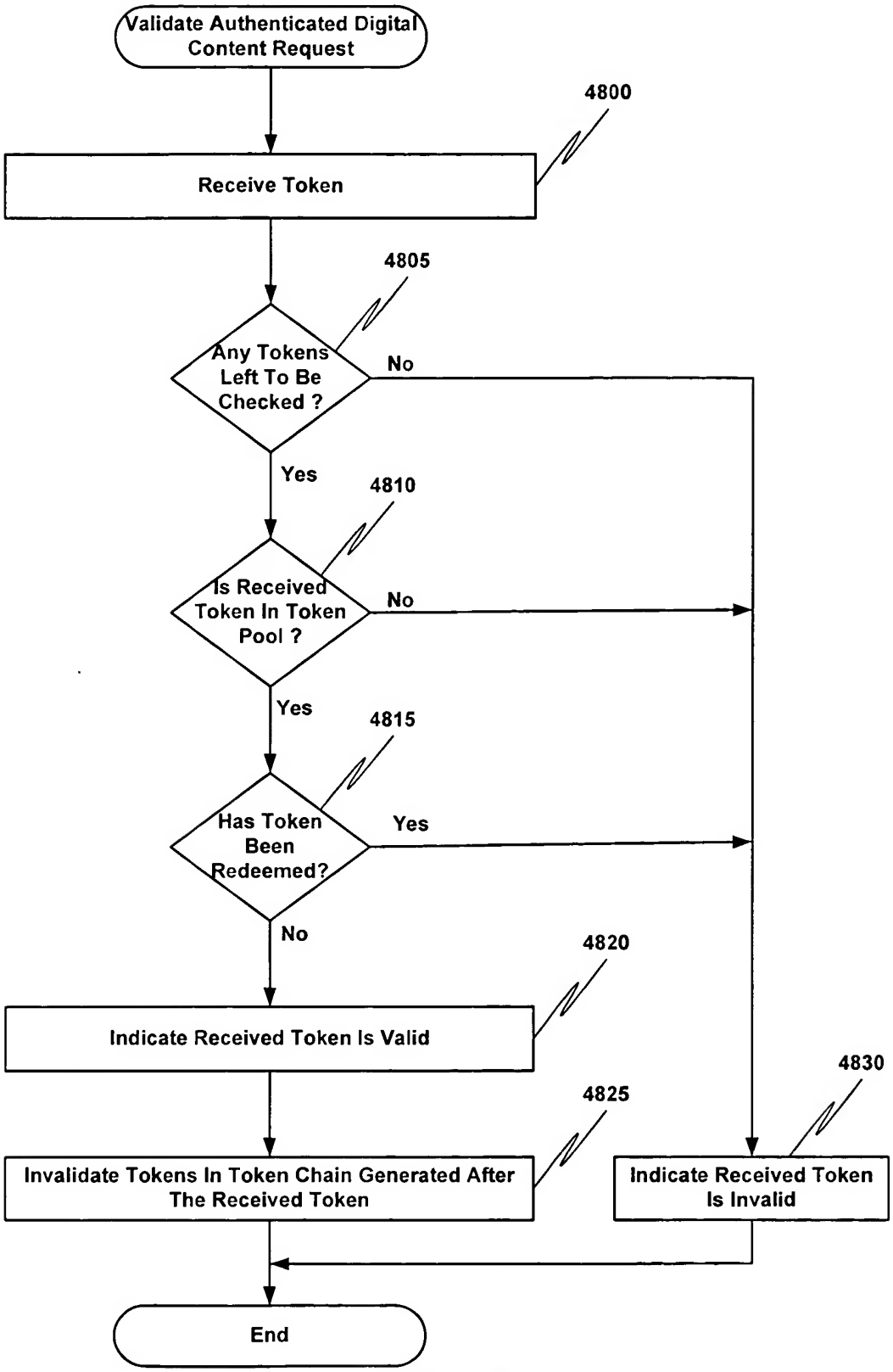
Validate Authenticated Digital Content Request
4800
Receive Token
4805
Any Tokens Left To Be Checked ?
No
Yes
4810
Is Received Token In Token Pool ?
No
Yes
4815
Has Token Been Redeemed?
Yes
No
4820
Indicate Received Token Is Valid
4825
Invalidate Tokens In Token Chain Generated After The Received Token
4830
Indicate Received Token Is Invalid
End

FIG. 48

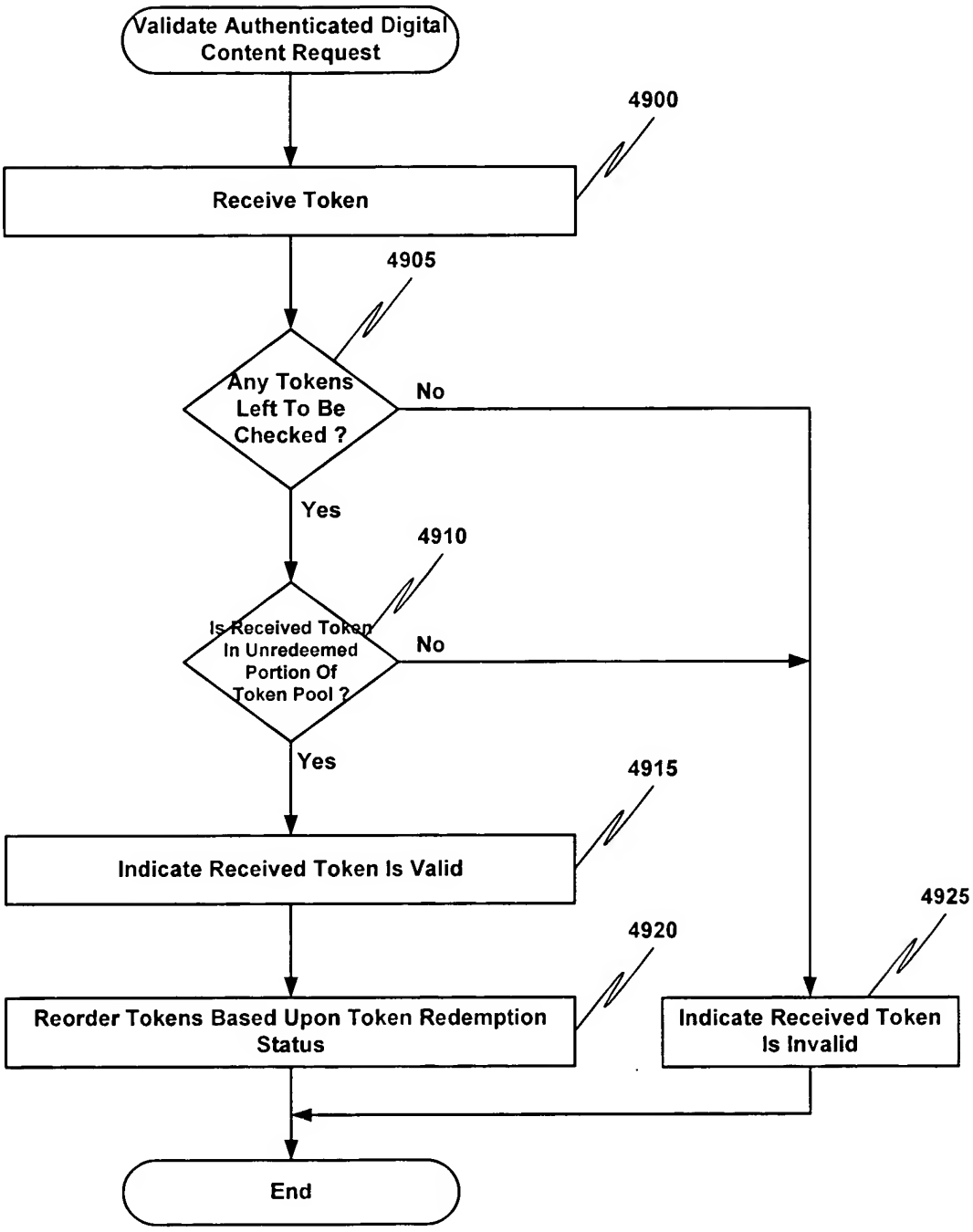
Validate Authenticated Digital Content Request
4900
Receive Token
4905
Any Tokens Left To Be Checked ?
No
Yes
4910
Is Received Token In Unredeemed Portion Of Token Pool ?
No
Yes
4915
Indicate Received Token Is Valid
4925
4920
Reorder Tokens Based Upon Token Redemption Status
Indicate Received Token Is Invalid
End

FIG. 49

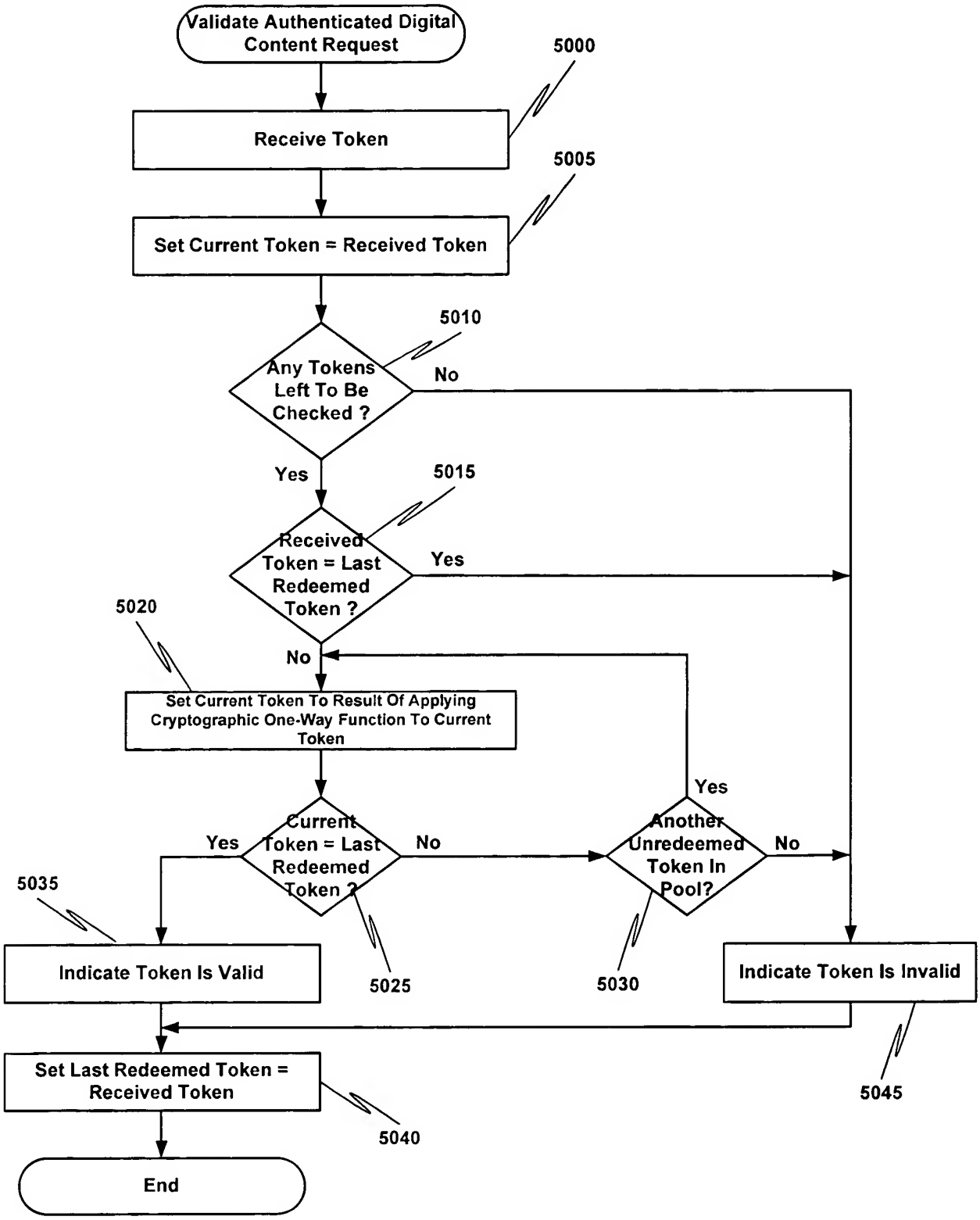
Validate Authenticated Digital Content Request
5000
Receive Token
5005
Set Current Token = Received Token
5010
Any Tokens Left To Be Checked ?
No
Yes
5015
Received Token = Last Redeemed Token ?
Yes
5020
No
Set Current Token To Result Of Applying Cryptographic One-Way Function To Current Token
Yes
Another Unredeemed Token In Pool?
No
Yes
Current Token = Last Redeemed Token ?
No
5035
Indicate Token Is Valid
5025
5030
Indicate Token Is Invalid
5045
Set Last Redeemed Token = Received Token
5040
End

FIG. 50

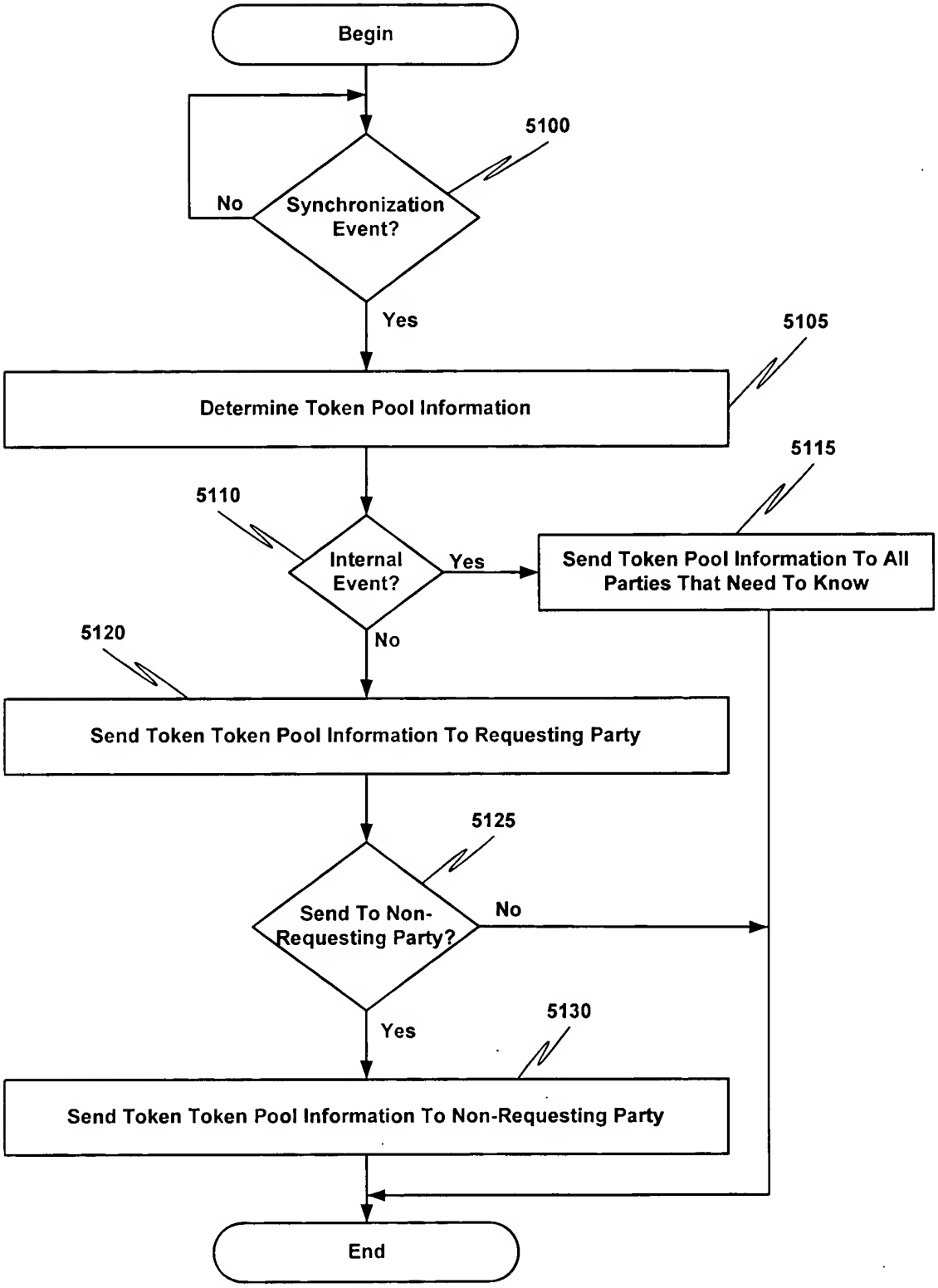
Begin
5100
Synchronization Event?
No
Yes
5105
Determine Token Pool Information
5115
5110
Internal Event?
Yes
Send Token Pool Information To All Parties That Need To Know
No
5120
Send Token Token Pool Information To Requesting Party
5125
Send To Non-Requesting Party?
No
Yes
5130
Send Token Token Pool Information To Non-Requesting Party
End

FIG. 51

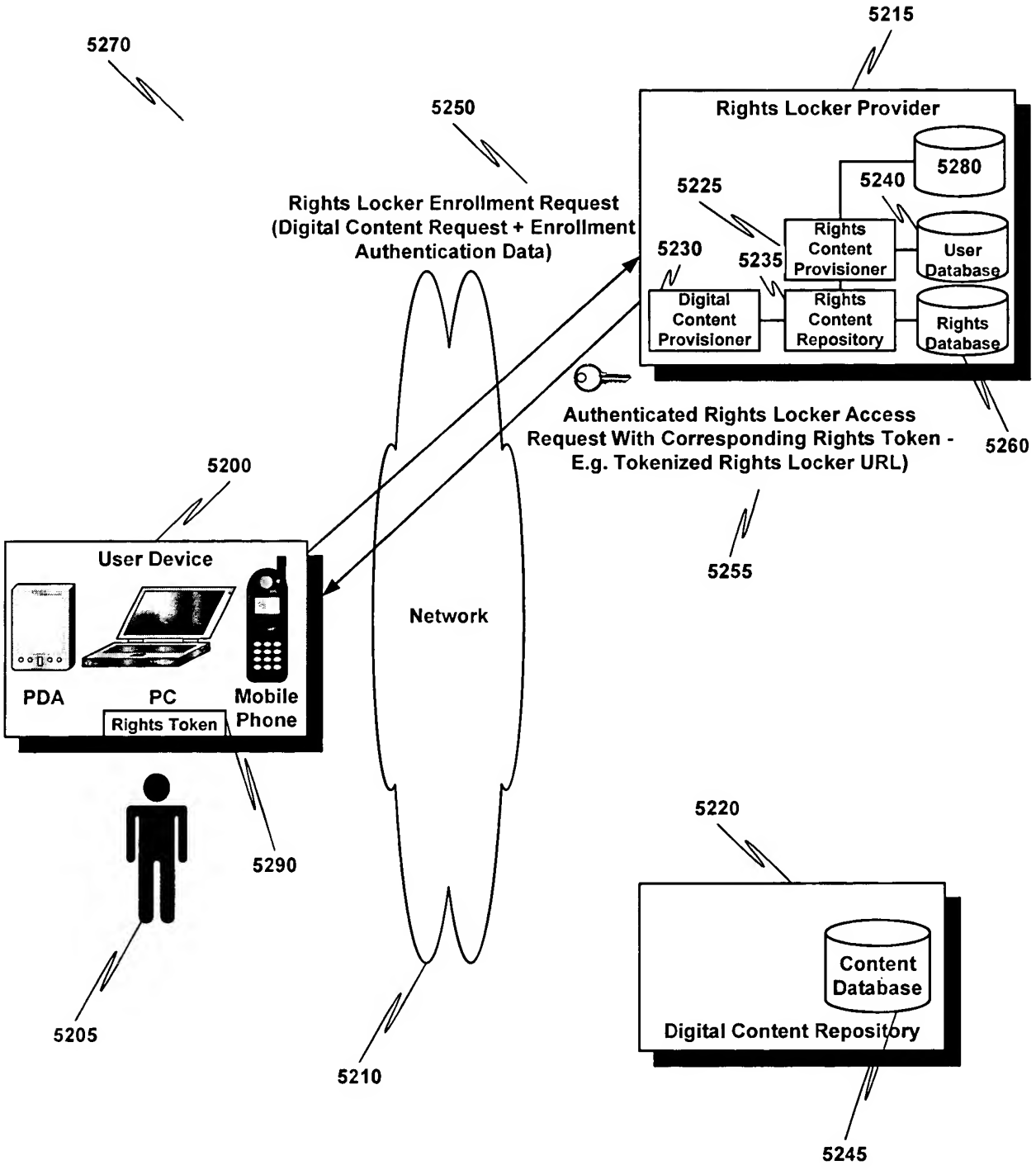
5270
5215
5250
Rights Locker Provider
5280
5240
5225
Rights Locker Enrollment Request
(Digital Content Request + Enrollment
Authentication Data)
Rights
Content
Provisioner
User
Database
5230
5235
Digital
Content
Provisioner
Rights
Content
Repository
Rights
Database
Authenticated Rights Locker Access
Request With Corresponding Rights Token -
E.g. Tokenized Rights Locker URL)
5260
5200
5255
User Device
Network
PDA
PC
Mobile
Phone
Rights Token
5290
5220
Content
Database
Digital Content Repository
5205
5210
5245

FIG. 52

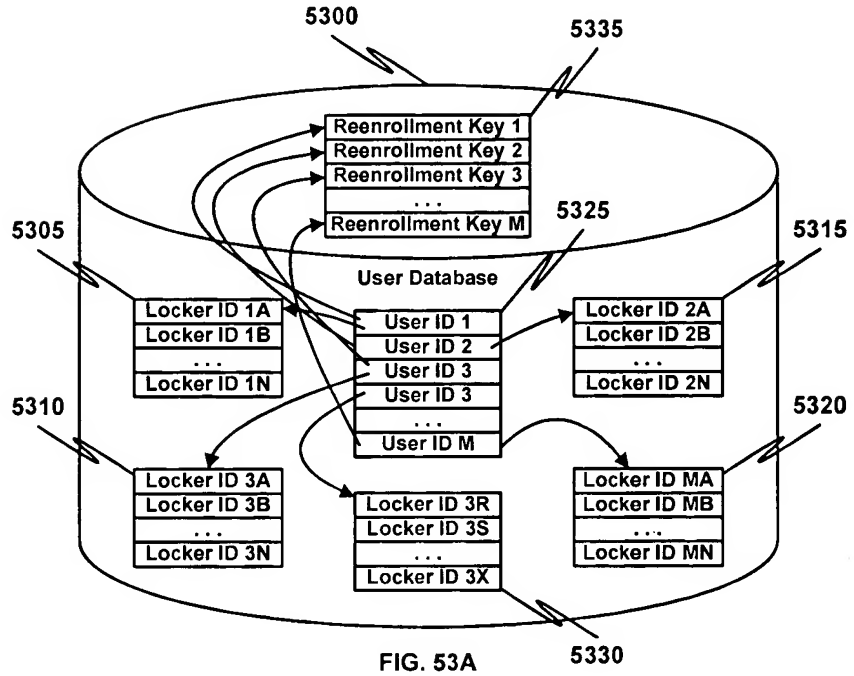

FIG. 53A

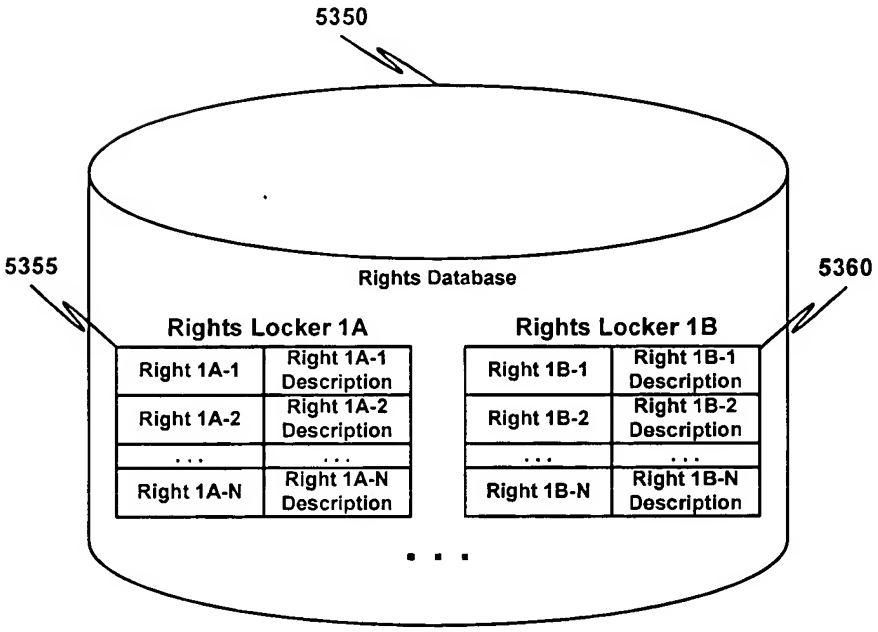

FIG. 53B

FIG. 53

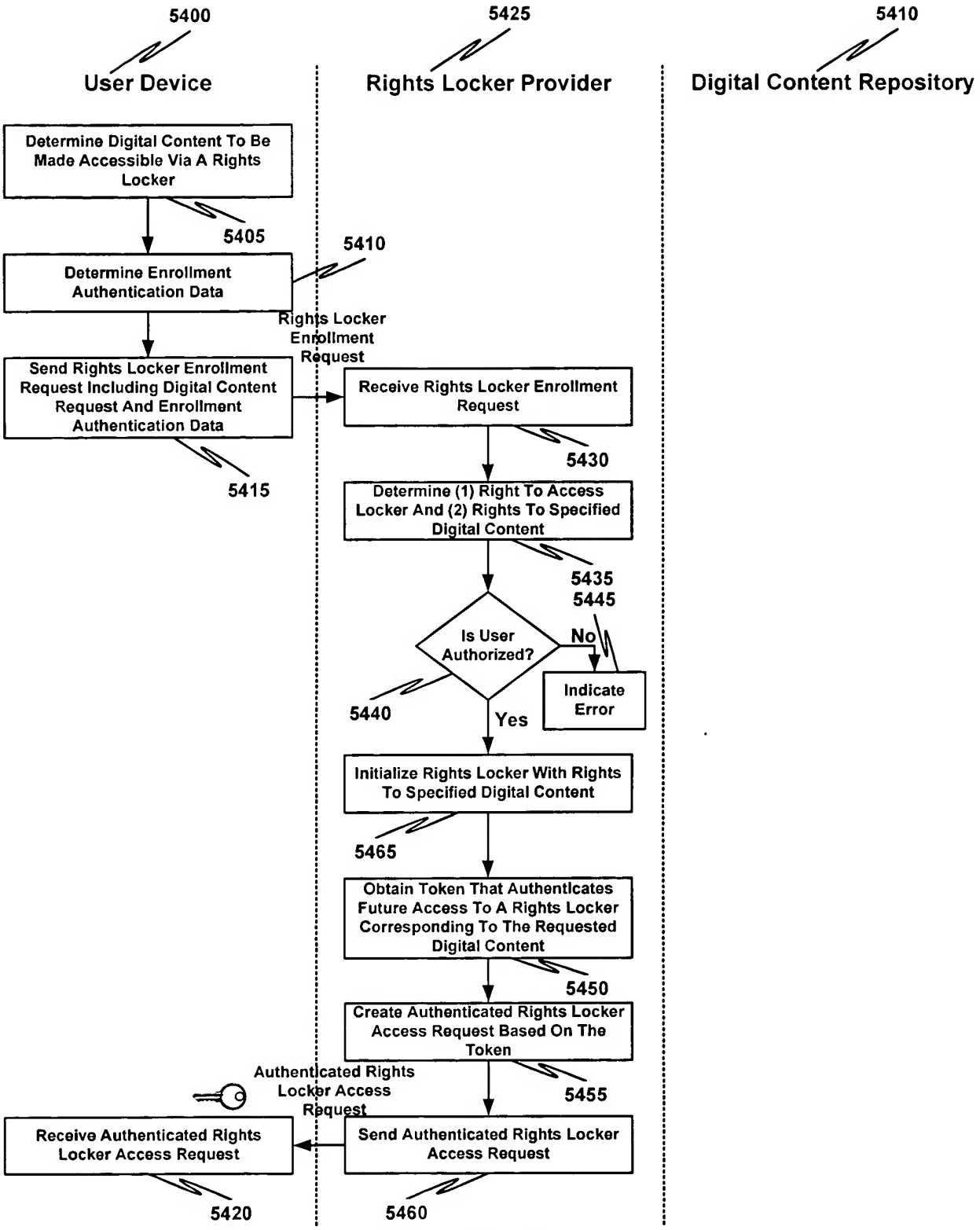
5400
User Device
5425
Rights Locker Provider
5410
Digital Content Repository
Determine Digital Content To Be Made Accessible Via A Rights Locker
5405
Determine Enrollment Authentication Data
5410
Rights Locker Enrollment Request
Send Rights Locker Enrollment Request Including Digital Content Request And Enrollment Authentication Data
5415
Receive Rights Locker Enrollment Request
5430
Determine (1) Right To Access Locker And (2) Rights To Specified Digital Content
5435
5445
Is User Authorized?
No
Indicate Error
5440
Yes
Initialize Rights Locker With Rights To Specified Digital Content
5465
Obtain Token That Authenticates Future Access To A Rights Locker Corresponding To The Requested Digital Content
5450
Create Authenticated Rights Locker Access Request Based On The Token
5455
Authenticated Rights Locker Access Request
Receive Authenticated Rights Locker Access Request
5420
Send Authenticated Rights Locker Access Request
5460

FIG. 54

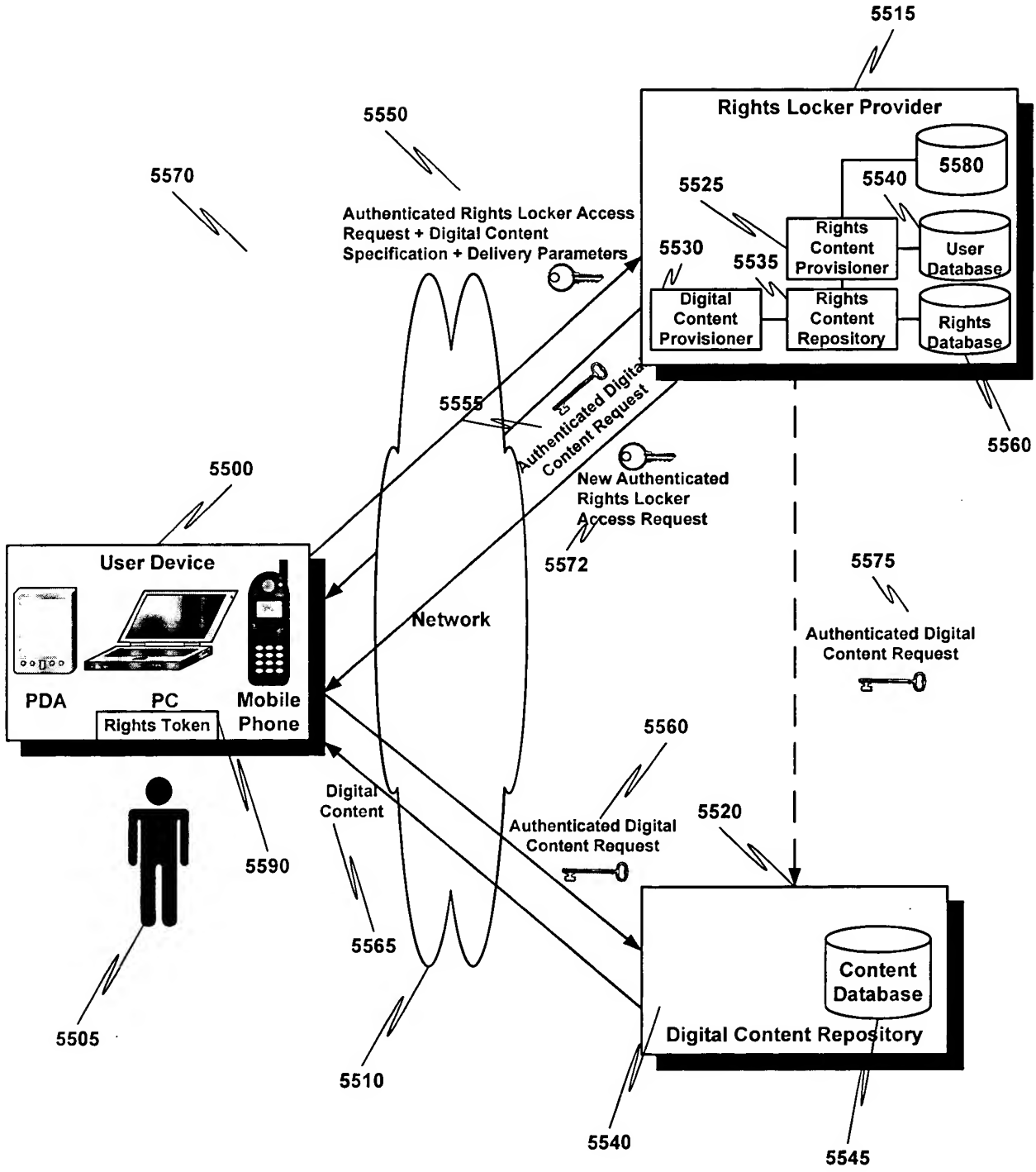
5515
Rights Locker Provider
5580
5540
5525
Rights Content Provisioner
User Database
5530
5535
Digital Content Provisioner
Rights Content Repository
Rights Database
5560
5550
5570
Authenticated Rights Locker Access Request + Digital Content Specification + Delivery Parameters
5555
Authenticated Digital Content Request
New Authenticated Rights Locker Access Request
5572
5500
User Device
PDA
PC
Rights Token
Mobile Phone
Network
5575
Authenticated Digital Content Request
5560
Digital Content
Authenticated Digital Content Request
5520
5590
5565
5505
5510
Content Database
Digital Content Repository
5540
5545

FIG. 55

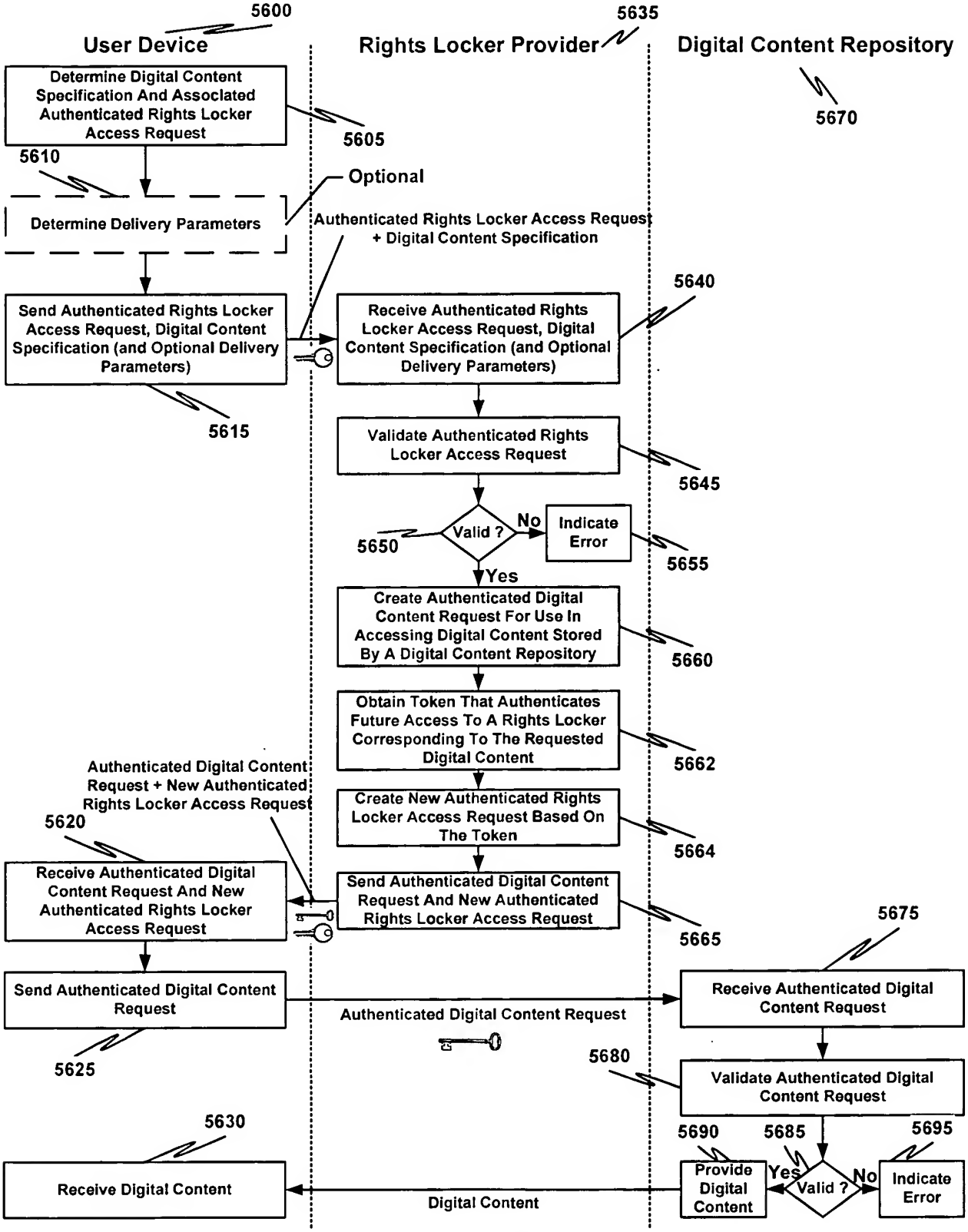
5600
User Device
5635
Rights Locker Provider
Digital Content Repository
5670
Determine Digital Content Specification And Associated Authenticated Rights Locker Access Request
5605
5610
Optional
Determine Delivery Parameters
Authenticated Rights Locker Access Request + Digital Content Specification
Send Authenticated Rights Locker Access Request, Digital Content Specification (and Optional Delivery Parameters)
5615
Receive Authenticated Rights Locker Access Request, Digital Content Specification (and Optional Delivery Parameters)
5640
Validate Authenticated Rights Locker Access Request
5645
Valid ?
5650
No
Indicate Error
5655
Yes
Create Authenticated Digital Content Request For Use In Accessing Digital Content Stored By A Digital Content Repository
5660
Obtain Token That Authenticates Future Access To A Rights Locker Corresponding To The Requested Digital Content
5662
Authenticated Digital Content Request + New Authenticated Rights Locker Access Request
Create New Authenticated Rights Locker Access Request Based On The Token
5664
5620
Receive Authenticated Digital Content Request And New Authenticated Rights Locker Access Request
Send Authenticated Digital Content Request And New Authenticated Rights Locker Access Request
5665
5675
Send Authenticated Digital Content Request
Authenticated Digital Content Request
Receive Authenticated Digital Content Request
5625
5680
Validate Authenticated Digital Content Request
5630
5690
5685
5695
Receive Digital Content
Digital Content
Provide Digital Content
Yes
Valid ?
No
Indicate Error

FIG. 56

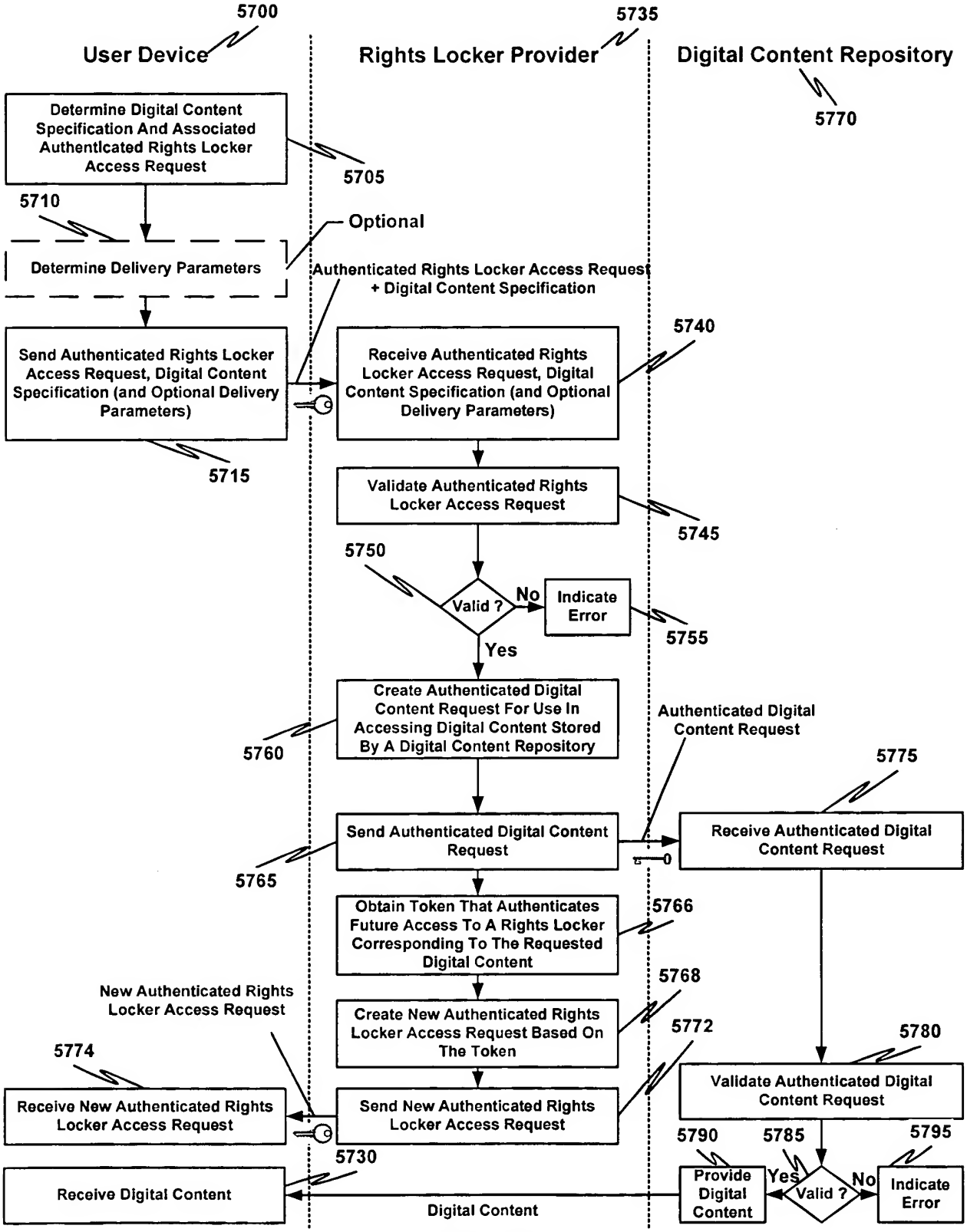
5700
User Device
5735
Rights Locker Provider
Digital Content Repository
5770
Determine Digital Content Specification And Associated Authentlcated Rights Locker Access Request
5705
5710
Optional
Determine Delivery Parameters
Authenticated Rights Locker Access Request + Digital Content Specification
Send Authenticated Rights Locker Access Request, Digital Content Specification (and Optional Delivery Parameters)
5715
Receive Authenticated Rights Locker Access Request, Digital Content Specification (and Optional Delivery Parameters)
5740
Validate Authenticated Rights Locker Access Request
5745
5750
Valid ?
No
Indicate Error
5755
Yes
Create Authenticated Digital Content Request For Use In Accessing Digital Content Stored By A Digital Content Repository
5760
Authenticated Digital Content Request
5775
Send Authenticated Digital Content Request
5765
Receive Authenticated Digital Content Request
Obtain Token That Authenticates Future Access To A Rights Locker Corresponding To The Requested Digital Content
5766
5768
New Authenticated Rights Locker Access Request
Create New Authenticated Rights Locker Access Request Based On The Token
5772
5780
5774
Validate Authenticated Digital Content Request
Receive New Authenticated Rights Locker Access Request
Send New Authenticated Rights Locker Access Request
5790
5785
5795
5730
Provide Digital Content
Yes
Valid ?
No
Indicate Error
Receive Digital Content
Digital Content

FIG. 57

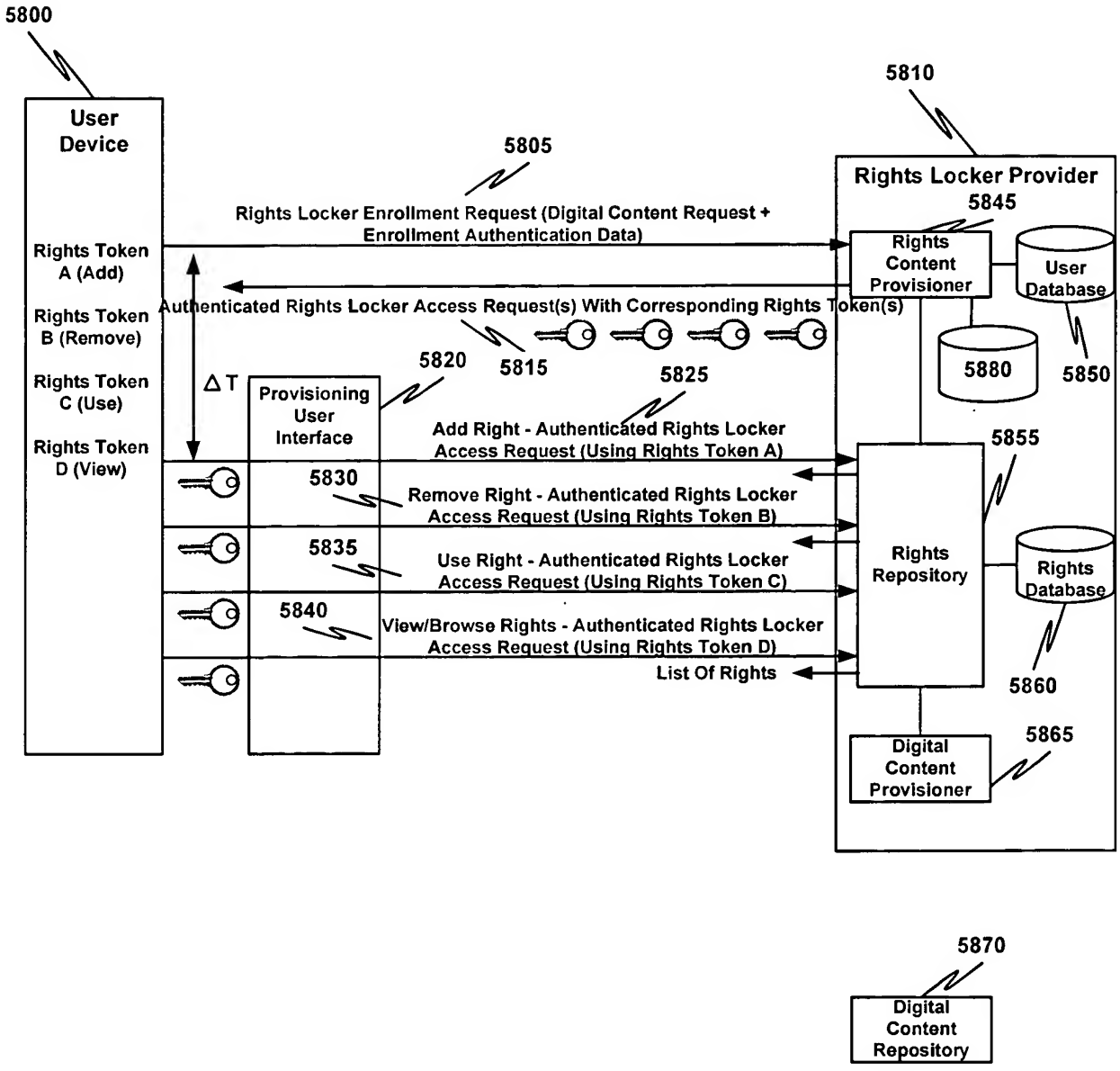
5800
User Device
Rights Token A (Add)
Rights Token B (Remove)
Rights Token C (Use)
Rights Token D (View)
ΔT
5805
Rights Locker Enrollment Request (Digital Content Request + Enrollment Authentication Data)
Authenticated Rights Locker Access Request(s) With Corresponding Rights Token(s)
5815
5820
Provisioning User Interface
5825
Add Right - Authenticated Rights Locker Access Request (Using Rights Token A)
5830
Remove Right - Authenticated Rights Locker Access Request (Using Rights Token B)
5835
Use Right - Authenticated Rights Locker Access Request (Using Rights Token C)
5840
View/Browse Rights - Authenticated Rights Locker Access Request (Using Rights Token D)
List Of Rights
5810
Rights Locker Provider
5845
Rights Content Provisioner
User Database
5880
5850
5855
Rights Repository
Rights Database
5860
Digital Content Provisioner
5865
5870
Digital Content Repository

FIG. 58

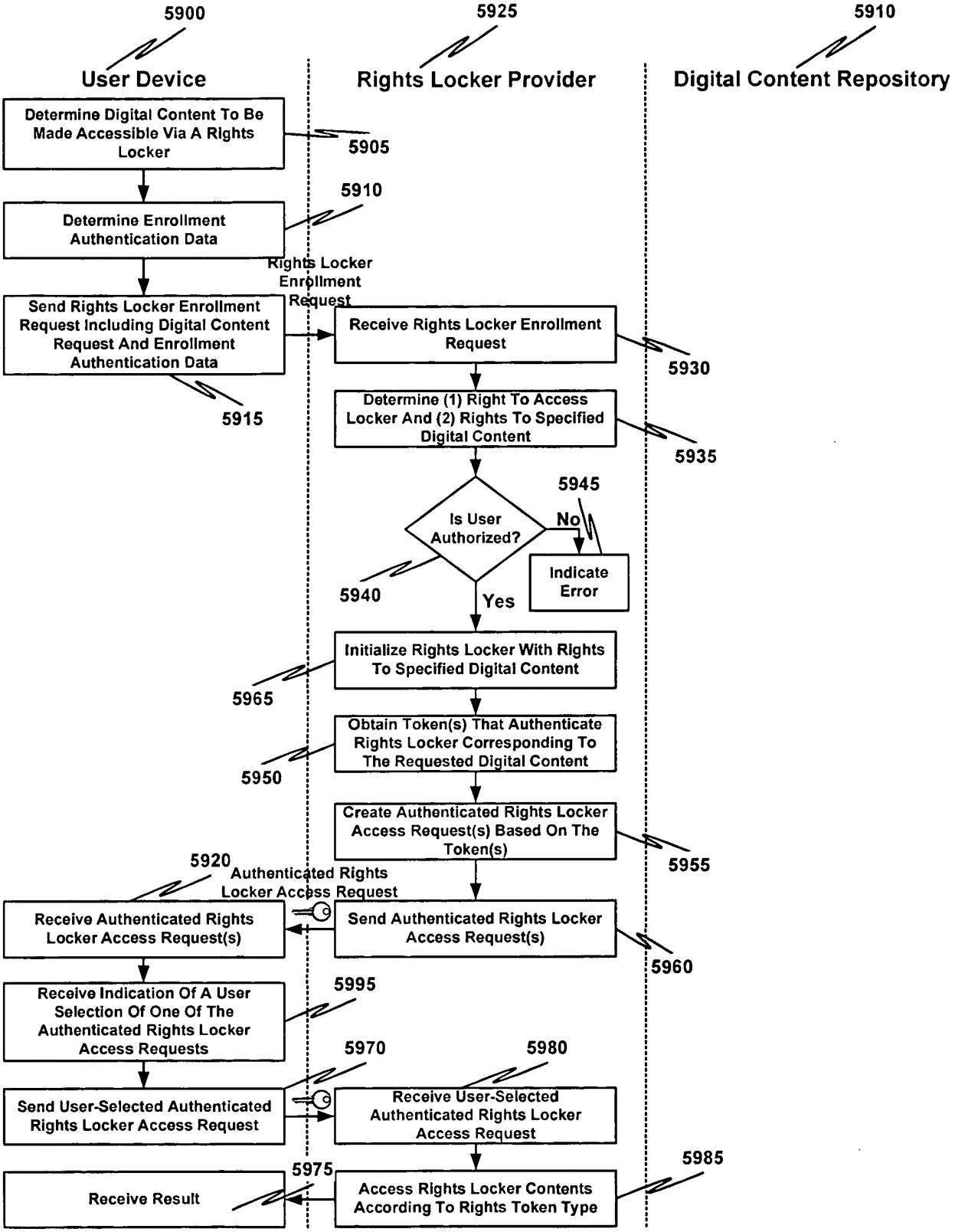
5900
User Device
5925
Rights Locker Provider
5910
Digital Content Repository
Determine Digital Content To Be Made Accessible Via A Rights Locker
5905
Determine Enrollment Authentication Data
5910
Send Rights Locker Enrollment Request Including Digital Content Request And Enrollment Authentication Data
5915
Rights Locker Enrollment Request
Receive Rights Locker Enrollment Request
5930
Determine (1) Right To Access Locker And (2) Rights To Specified Digital Content
5935
Is User Authorized?
5945
No
Indicate Error
5940
Yes
Initialize Rights Locker With Rights To Specified Digital Content
5965
Obtain Token(s) That Authenticate Rights Locker Corresponding To The Requested Digital Content
5950
Create Authenticated Rights Locker Access Request(s) Based On The Token(s)
5955
5920
Authenticated Rights Locker Access Request
Receive Authenticated Rights Locker Access Request(s)
Send Authenticated Rights Locker Access Request(s)
5960
Receive Indication Of A User Selection Of One Of The Authenticated Rights Locker Access Requests
5995
5970
5980
Send User-Selected Authenticated Rights Locker Access Request
Receive User-Selected Authenticated Rights Locker Access Request
5985
5975
Receive Result
Access Rights Locker Contents According To Rights Token Type

FIG. 59

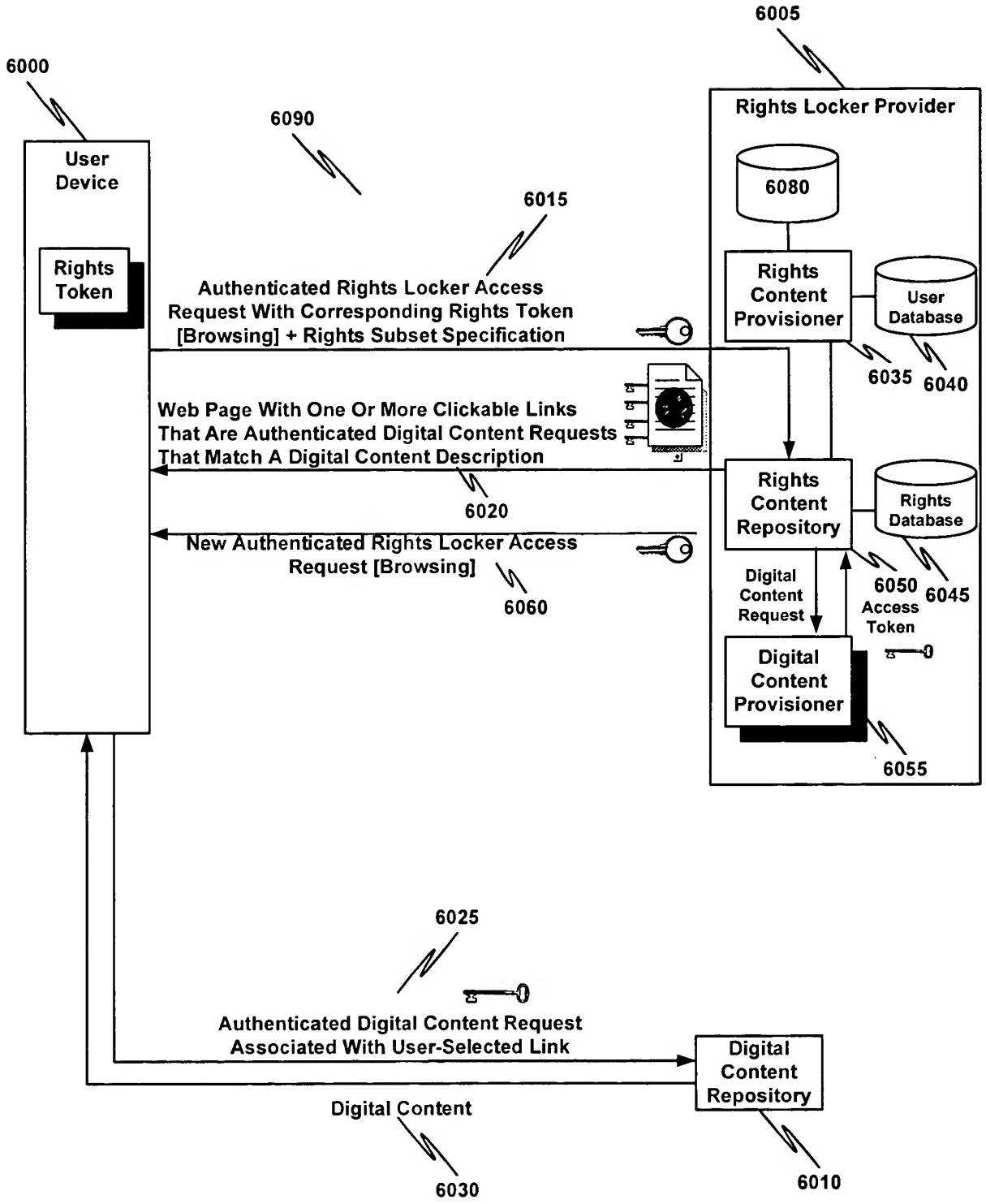
6005
6000
Rights Locker Provider
6090
User Device
6080
6015
Rights Token
Rights Content Provisioner
User Database
Authenticated Rights Locker Access Request With Corresponding Rights Token [Browsing] + Rights Subset Specification
6035
6040
Web Page With One Or More Clickable Links That Are Authenticated Digital Content Requests That Match A Digital Content Description
Rights Content Repository
Rights Database
6020
New Authenticated Rights Locker Access Request [Browsing]
6050
6045
Digital Content Request
Access Token
6060
Digital Content Provisioner
6055
6025
Authenticated Digital Content Request Associated With User-Selected Link
Digital Content Repository
Digital Content
6030
6010

FIG. 60

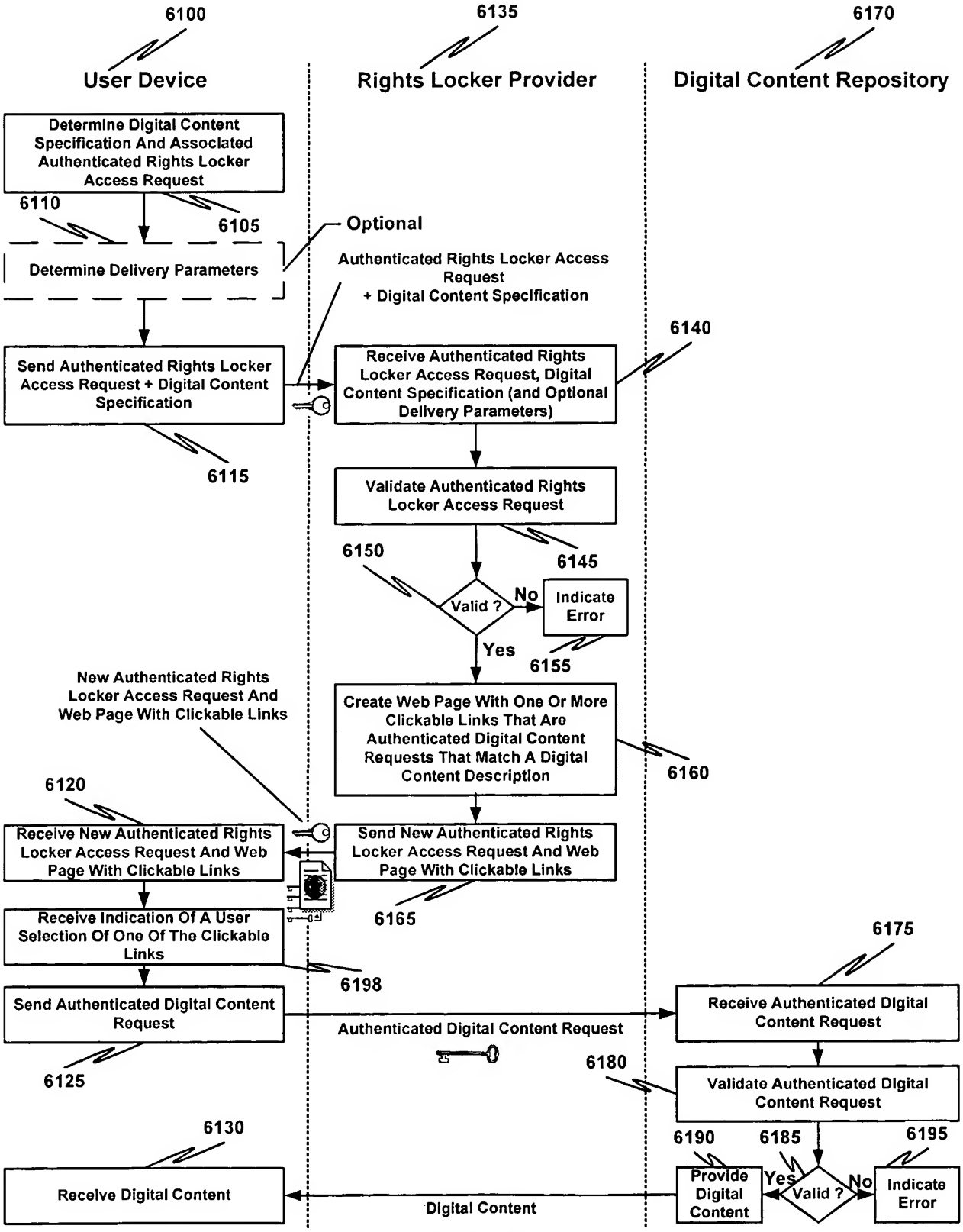
6100
User Device
6135
Rights Locker Provider
6170
Digital Content Repository
Determine Digital Content Specification And Associated Authenticated Rights Locker Access Request
6110
6105
Optional
Determine Delivery Parameters
Authenticated Rights Locker Access Request + Digital Content Specification
6140
Send Authenticated Rights Locker Access Request + Digital Content Specification
Receive Authenticated Rights Locker Access Request, Digital Content Specification (and Optional Delivery Parameters)
6115
Validate Authenticated Rights Locker Access Request
6150
6145
Valid ?
No
Indicate Error
Yes
6155
New Authenticated Rights Locker Access Request And Web Page With Clickable Links
Create Web Page With One Or More Clickable Links That Are Authenticated Digital Content Requests That Match A Digital Content Description
6160
6120
Receive New Authenticated Rights Locker Access Request And Web Page With Clickable Links
Send New Authenticated Rights Locker Access Request And Web Page With Clickable Links
6165
Receive Indication Of A User Selection Of One Of The Clickable Links
6198
6175
Send Authenticated Digital Content Request
Authenticated Digital Content Request
Receive Authenticated Digital Content Request
6125
6180
Validate Authenticated Digital Content Request
6130
6190
6185
6195
Receive Digital Content
Digital Content
Provide Digital Content
Yes
Valid ?
No
Indicate Error

FIG. 61

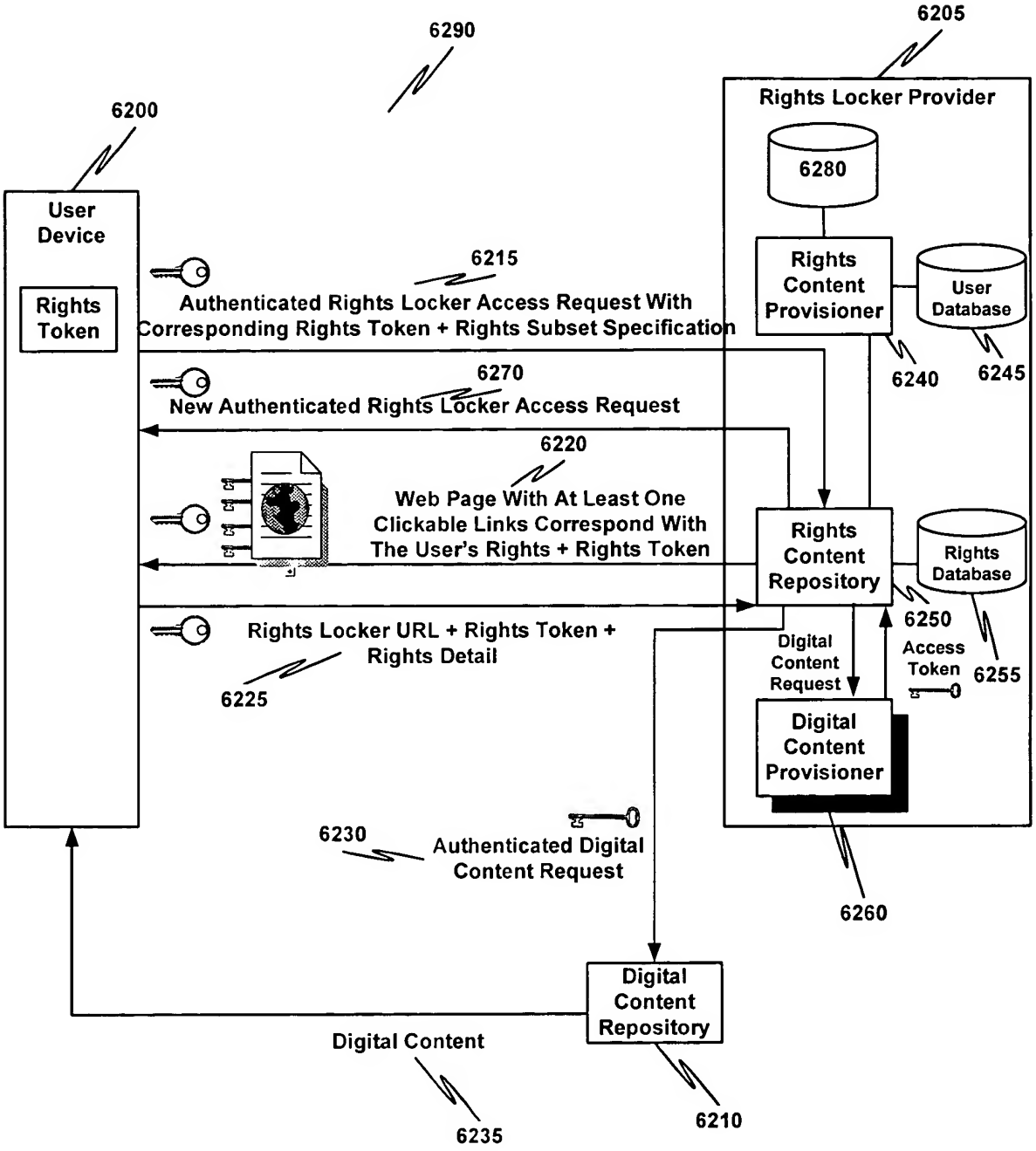
6290
6205
Rights Locker Provider
6200
User Device
6280
Rights Token
6215
Authenticated Rights Locker Access Request With Corresponding Rights Token + Rights Subset Specification
Rights Content Provisioner
User Database
6240
6245
6270
New Authenticated Rights Locker Access Request
6220
Web Page With At Least One Clickable Links Correspond With The User's Rights + Rights Token
Rights Content Repository
Rights Database
6250
Access Token
6255
Rights Locker URL + Rights Token + Rights Detail
6225
Digital Content Request
Digital Content Provisioner
6230
Authenticated Digital Content Request
6260
Digital Content Repository
Digital Content
6235
6210

FIG. 62

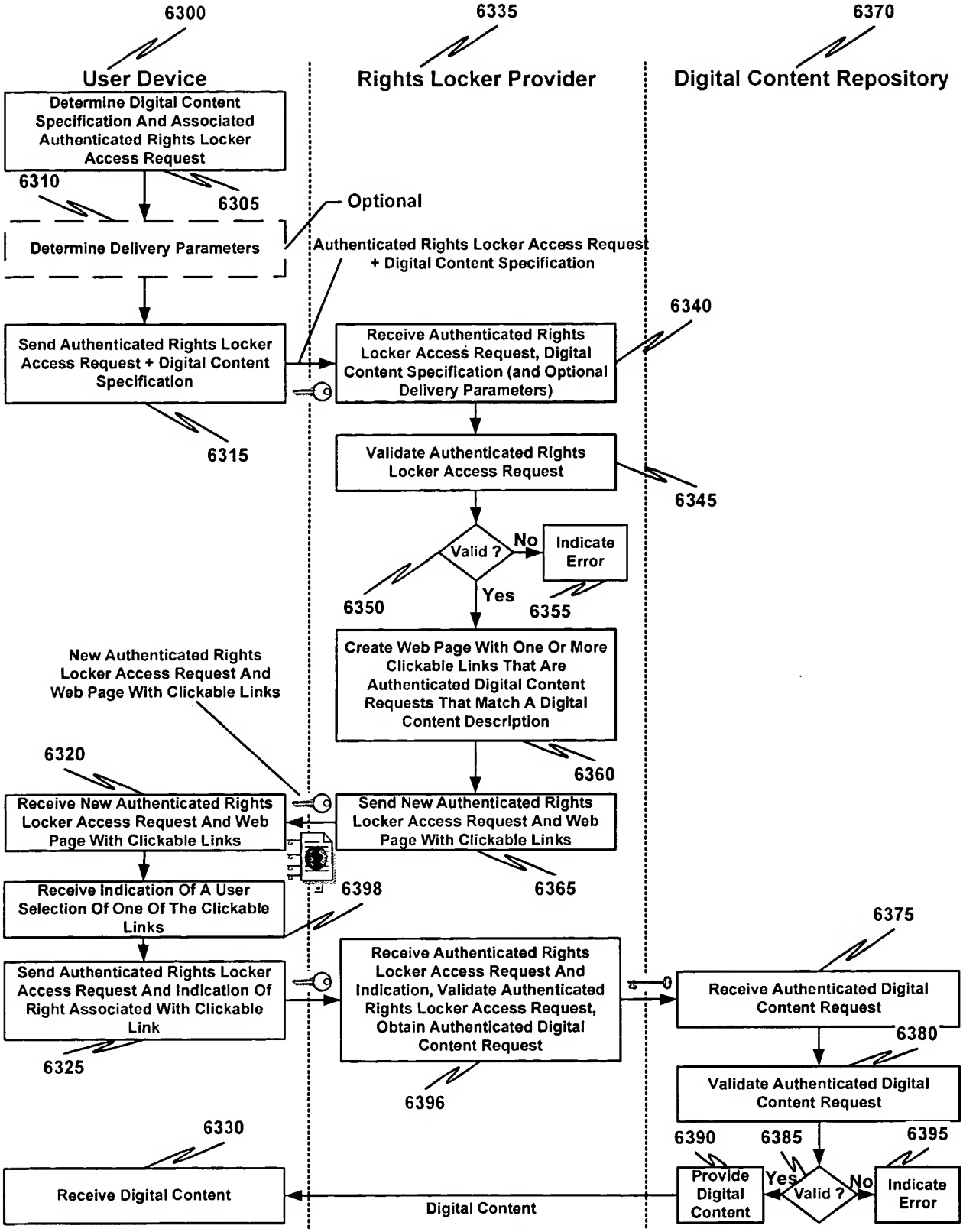
6300
User Device
6335
Rights Locker Provider
6370
Digital Content Repository
Determine Digital Content Specification And Associated Authenticated Rights Locker Access Request
6310
6305
Optional
Determine Delivery Parameters
Authenticated Rights Locker Access Request + Digital Content Specification
Send Authenticated Rights Locker Access Request + Digital Content Specification
6315
Receive Authenticated Rights Locker Access Request, Digital Content Specification (and Optional Delivery Parameters)
6340
Validate Authenticated Rights Locker Access Request
6345
Valid ?
No
Indicate Error
6350
Yes
6355
Create Web Page With One Or More Clickable Links That Are Authenticated Digital Content Requests That Match A Digital Content Description
6360
New Authenticated Rights Locker Access Request And Web Page With Clickable Links
6320
Receive New Authenticated Rights Locker Access Request And Web Page With Clickable Links
Send New Authenticated Rights Locker Access Request And Web Page With Clickable Links
6365
Receive Indication Of A User Selection Of One Of The Clickable Links
6398
6375
Send Authenticated Rights Locker Access Request And Indication Of Right Associated With Clickable Link
6325
Receive Authenticated Rights Locker Access Request And Indication, Validate Authenticated Rights Locker Access Request, Obtain Authenticated Digital Content Request
6396
Receive Authenticated Digital Content Request
6380
Validate Authenticated Digital Content Request
6330
6390
6385
6395
Receive Digital Content
Digital Content
Provide Digital Content
Yes
Valid ?
No
Indicate Error

FIG. 63